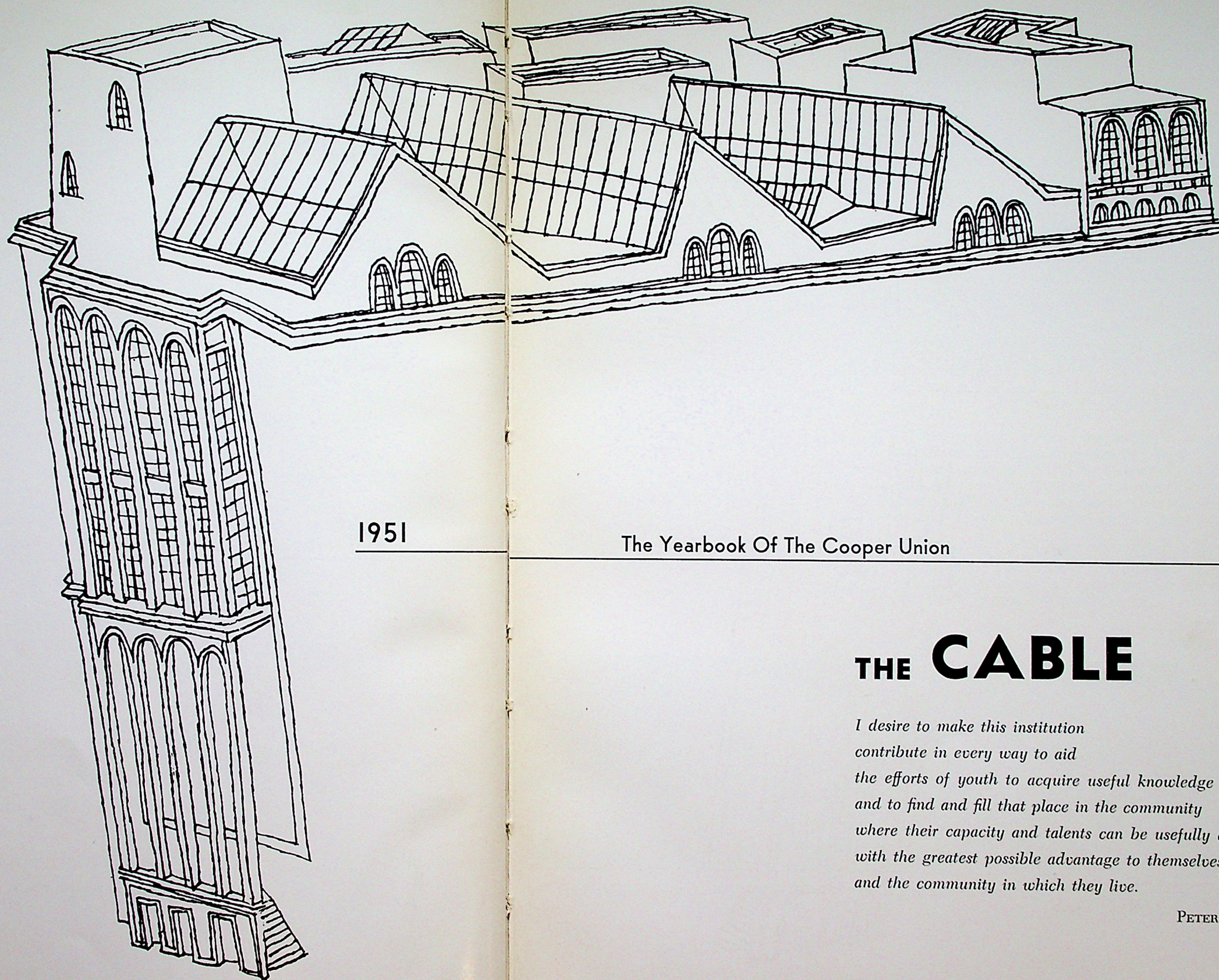


THE CABLE 1951

the yearbook of the Cooper Union

Dedicated to Contemporary Life and Thought



Cooper Square
New York 3, New York

1951

The Yearbook Of The Cooper Union

THE CABLE

*I desire to make this institution
contribute in every way to aid
the efforts of youth to acquire useful knowledge
and to find and fill that place in the community
where their capacity and talents can be usefully employed
with the greatest possible advantage to themselves
and the community in which they live.*

PETER COOPER

ADMINISTRATION

DR. EDWIN S. BURDELL, appointed director in 1938, has labored faithfully and diligently for the liberalization of the Art and Engineering Schools at The Cooper Union for sixteen years, bringing The Cooper Union to the forefront of enlightened educational institutions.

DANA P. VAUGHAN was appointed to his present position in 1945 by virtue of his educational abilities and experience. He was director of the School of Industrial Arts at Trenton, and Dean of the Rhode Island School of Design before accepting his present position.

NORMAN L. TOWLE was head of the Department of Electrical Engineering at The Cooper Union for sixteen years before he succeeded the late Dean Bateman as head of the School of Engineering in 1946. His broad experience in the educational field has well suited him for his present position of leadership and guidance.

HERBERT F. ROEMMELE's close association with school and industry has enabled him to do an excellent job in presenting The Cooper Union to the industrial world. In his post as head of the Dept. of Industrial Relations, he has brought the school and industry into intimate contact.

WALTER S. WATSON, Professor of Psychology, has presided over the Office of Admissions since 1939. He has contributed greatly to the establishment of closer relations between faculty and students. His own boyhood and varied experiences account for his understanding of the problems of college students, veteran and non-veteran, male and female.

ELIZABETH J. CARBON, Business Officer of The Cooper Union, has been affiliated with the school since 1930. Although she is one of the least publicized of the administrative body, she has the vital task of handling the school's legal and financial matters.



DANA VAUGHAN



NORMAN TOWLE



HERBERT F. ROEMMELE



WALTER S. WATSON

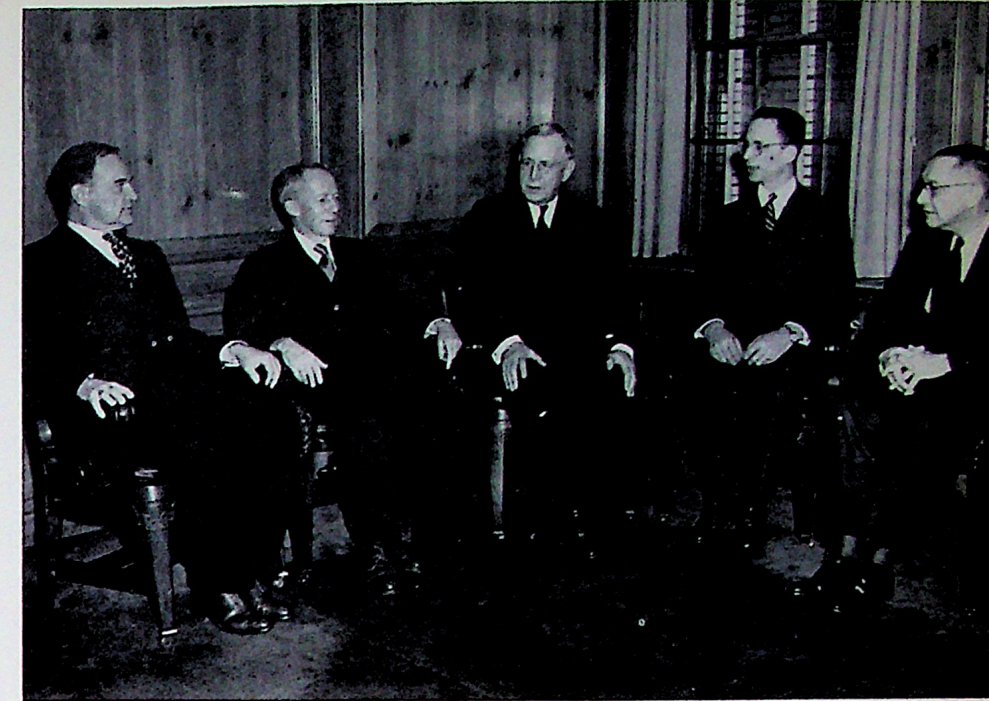


ELIZABETH J. CARBON



DR. EDWIN S. BURDELL

TRUSTEES



Left to Right: I. S. Olds, E. Root, Jr., G. Dunn, B. Henry, H. R. Searing.

GANO DUNN, electrical engineer, Doctor of Science, and Doctor of Laws, became a trustee of The Cooper Union in 1924 and President of the Board of Trustees in 1935. Dr. Dunn has always been keenly devoted to The Cooper Union and has guided its course successfully through many difficult years.

ELIHU ROOT, JR. received his A.M. from Hamilton College in 1905, an LL.D. in 1939, and an LL.B. from Harvard in 1906. Holder of Presidential Medal of Merit, he has been a Trustee of The Cooper Union since 1929, and is also a Trustee of Hamilton College.

BARKLIE HENRY, youngest of The Cooper Union's Trustees, was appointed to the Board in 1935. He served in the U.S. Naval Reserve during World War II. Mr. Henry has become outstanding in service to the community, and notable in the field of hospital and welfare administration.

IRVING S. OLDS graduated from Yale in 1907 and from Harvard Law School in 1910. Since 1940 he has been Chairman of the Board of The United States Steel Corporation. Elected to the Board of Trustees of The Cooper Union in 1943, Mr. Olds is also a Trustee of The Metropolitan Museum of Art and of Yale University.

HUDSON R. SEARING, President of The Consolidated Edison Company of New York and a graduate of The Cooper Union, replaces Walter S. Gifford on the Board of Trustees. A member of the Council of New York University, Mr. Searing also belongs to Tau Beta Pi, the national honorary engineering society.

Peter Cooper's "Union for the Advancement of Science and Art" has been a pioneer in the field of free public education, consistently encouraging the spirit of free speech, fair play, and earnest intellectual enquiry.

The year of your life at The Cooper Union which this edition of *The Cable* commemorates has been one heavy with responsibility and uncertainty for us all. I hope that these uncertainties for you have been at least partially offset by a realization of permanent values absorbed from your classes and from your extra-curricular associations—such permanent values as friendships, knowledge, and personal achievement.

The presently unstable world lacks a unifying principle. I hope that you have found that The Cooper Union, on the other hand, has maintained the unifying principles of democracy which were Peter Cooper's.

History has changed The Cooper Union's curricular offerings a number of times during its ninety-two years of existence, but it has never changed its basic philosophy. The long-range trend of these changes has been toward higher academic and professional standards, but the continuing policy characteristic of The Cooper Union's evolution has been consistent with Peter Cooper's desire that "this institution contribute in every way to aid the efforts of youth to acquire useful knowledge, and to find and fill that place in the community where their capacity and talents can be usefully employed with the greatest possible advantage to themselves and the community in which they live."

As the educational needs of the community have changed, the Art School has shifted from being a school exclusively for women to coeducation. Courses in typewriting and Morse Code were installed and then abandoned as the call for them lessened. Instruction at the craft and technician levels was discontinued as the community required more and more professionally educated men and women in engineering and art.

Perhaps the Cooper Union student could develop no more desirable qualities than those exemplified by the history of his alma mater—to be flexible in order to be of maximum service to his community, and yet to be stable in his adherence to Peter Cooper's ideals of democracy and high standards of personal responsibility and performance, whatever be the task at hand.

Dr. Edwin S. Burdell



Dear Mr. Cooper . . .

I am taking the liberty of writing to you because I know that you will understand the problems that we, the present students of your UNION, face. I have no doubt but that you are watching over us, and I feel that a letter to you might perhaps aid in settling the uneasiness of my mind.

Ninety years ago you had the foresight to found this institution, unique then and now, where the newly awakened concepts of science and art were to be taught. I hope that I am correct in surmising that you believed in the leadership of these concepts in effecting the destiny of mankind, and the eventual unification of the two into a whole. The scientist and the artist were to dedicate their lives to the perfection of mankind, the former by improving man's physical life, the latter his aesthetic.

Yet now, after so many years, we have not been able to achieve these goals and we seem no nearer to them than when you started. Perhaps it is but the folly of youth speaking, but ours is a generation that faces hard times. We stand a good chance to lose those steps toward leadership which we have been able to take. The forces of reaction which have so long ruled the world are again showing strength. Men of art and science are subjected to ridicule and persecution.

We seem to be at a crossroads. Two sides have taken up positions facing each other in full battle array, and we must decide. The choice lies not so much as to sides, for there can be little doubt that we must defend the principles of freedom. As intelligent beings we cannot be slaves. It is obvious that we must continue to look for the truth, for that is our purpose in life.

We must determine how we may best serve the world as a whole. All the progress we seem to be able to devise is turned to uses of war; the submarine, the airplane, atomic energy . . . while we stand helpless.

Many of our companions, even our fellow intellectuals, have already allowed the initiative to pass from their hands. They have forsaken the role of leadership for one of domination, and have in turn been dominated.

...My hopes embrace humanity throughout the world...

Into this world, then, I must graduate and make my choice. Four years in your school have prepared me for the peaceful world of science and art I fail to find. What I shall do, I do not yet know. I must do my best to carry forth my heritage, derived in large measure from your ideas. I hope that my decisions will be the right ones.

Respectfully yours.

The Cooper Union for the Advancement of Science and Art stands today as a monument to the ideals and philosophy of nineteenth century America as formulated and applied by its founder, Peter Cooper.

Nineteenth century America was a nation having its face lifted by the industrial revolution. New concepts and new standards crystallized out of the turmoil of readjustment and new legends were spun, but instead of being about pioneers and the frontier, they were about pioneers and machines.

The favorite tale of the times was the story of a poor boy who, by dint of his thrift, perseverance, ingenuity, and self-teaching rose to the top of the industrial world. This tale and ones of more rapid financial success buzzed from heart to heart through Europe and to all the corners of the world. America became a symbol for youth, fertility, and opportunity, freedom, power, and wealth.

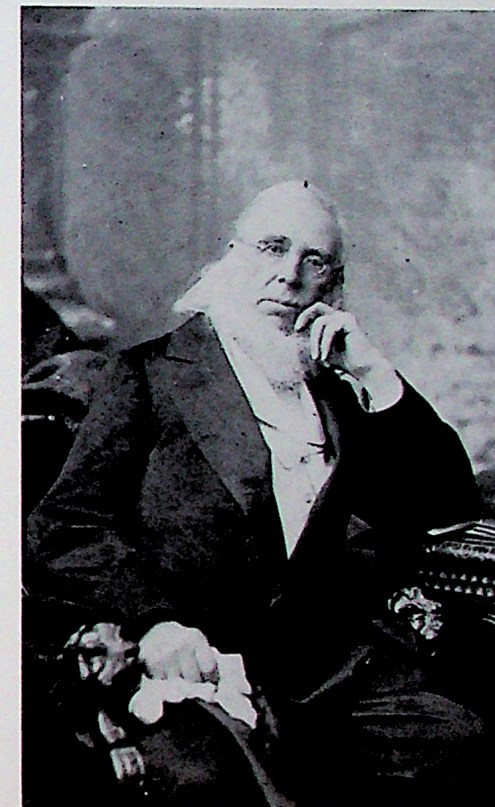
Peter Cooper's biography reads like the legend of the poor boy. He was born in 1791 on Water Street in the lower East Side section of New York City, right in the center of the warehouse district. Though he had but one year of formal education, in the course of his early life he became experienced at hat-making, carpentry, brewing, dairying, storekeeping, bricklaying, and cobbling.

His success depended on a series of opportunities which he clearly analyzed and made the most of. He felt certain that the war of 1812 would restrict the importation of cloth-shearing machinery from England and, therefore, he went into that business. In the depths of the post-war depression, 1822, he purchased a small glue factory which he bought at a very low price.

It is difficult to say exactly why Peter Cooper chose to make The Cooper Union his major philanthropy, but one thing is certain: education was in the air. These were the times when Horace Mann and DeWitt Clinton were pioneering in the field of education. Peter Cooper remembered that when he was a young man he had unsuccessfully scoured the city for an institution to develop his potentialities. No such institution existed and he had to be content with an arithmetic tutor and his copy of The Bible.

A profoundly religious and socially conscious man, on his ninetieth birthday, Peter Cooper said that he thought of his life as divided into three stages: thirty years of learning; thirty years of establishing his property; and thirty years of using his property to do good.

Mechanic of New York





GREEN ENGINEERING CAMP



Look back at Green Camp and what do you remember?

In four years at Cooper you have a lot of contact with the camp.

Were you that shy freshman standing there, waiting for the bus to take you to orientation?

Or perhaps you were there in the lobby wearing your old clothes waiting to go up on a weekend trip.

Or again, you were that fellow running for the ferry with T square under arm—running to make the train up for surveying or painting.

At any rate, you were there somewhere, and you do remember many things. Perhaps little things like Dr. Burdell leading us over to the Manor House and telling us all about General Erskine's ghost.

Or Professor Hope leading the ax wielders in their construction of the Rifle Club cabin.

Or Maroon beating Gold in the potato race.

Or the night the star shooting CE's couldn't find their beds.

Or the climb up to the hayloft for a book.

Or any of the very many more that only you know about.

But we all were there, and we all have memories. Added together they make up the story of The Green Engineering Camp.

The painting trip occurs early in the spring, when the school year is completed, and the mind is left comparatively free and unhampered. You become aware of the season, the entire beautiful expanse of nature. The look of the trees, the sounds, the stillness. The clear, clean taste of un-smoked air, sun-baked, perfumed by early bud clusters. A brilliant sun illuminates the sky which is blue, wide, expanding out in all directions, radiating from your vantage point far—further than the eye can see. You sit in the field and paint. The experience is totally new and untasted. Your eyes, accustomed to the confinement of four walls are dazzled at first by the abundance of visual material. Trees. Have you ever looked at one?

Early in the morning we rose, dressed, and bounded out of the enclosing house down the road to the lodge. Our appetites were sharp, as indeed was every nerve. We felt alive, stimulated. After breakfast we set out alone or in groups, early enough so that there was still the pristine quality of morning. In the field across the road, near the cemetery, on the little foot bridge now extinct, we set up our easels, adjusted our canvasses—squeezed the oily smelling fat tubes—brilliant color glorified by sharp sunlight. Then concentration. Paint and look and paint and hear and paint and smell, and soon all of the overwhelming quality of the numerous grass blades, twigs, leaves, became lessened. In two weeks you attune to the surroundings, and as a huge canvas diminishes as you work it, so does this new world begin to be scaled down to our human proportions.

At dusk we would fold up the spindly legs of easels, put away paints, at arm's length carry the newly covered canvas back to the lodge. In a matter of days, walls and tables were covered with them. Color, line, mass—reflections of reflections of nature. Some saw design in the linear relationship of tree to tree to ground; some felt the rise and fall of the landscape, the hills pushing up, the water flowing; some were aware of the sunlit quivering of young foliage, the constant movement of birds and insects, or just the sun-soaked earth, or the mood of the early evening, or the magnificent surface of a huge old tree, gnarled, heavily rooted, pushing persistently into the sky. We lived in nature, it lived in us. Gradually, from timid little attempts at portraying it, we became more deeply aware and understanding.

No masterpieces were created in those two weeks. Indeed, most of the canvases were only beginnings. But thirty people returned to brown stone, and soot, and noise, and chaos, with the wonderful memory of revelation.

We were sitting in a big circle on the lawn in front of the Administration Building.

"...different from high school because now you are men..."

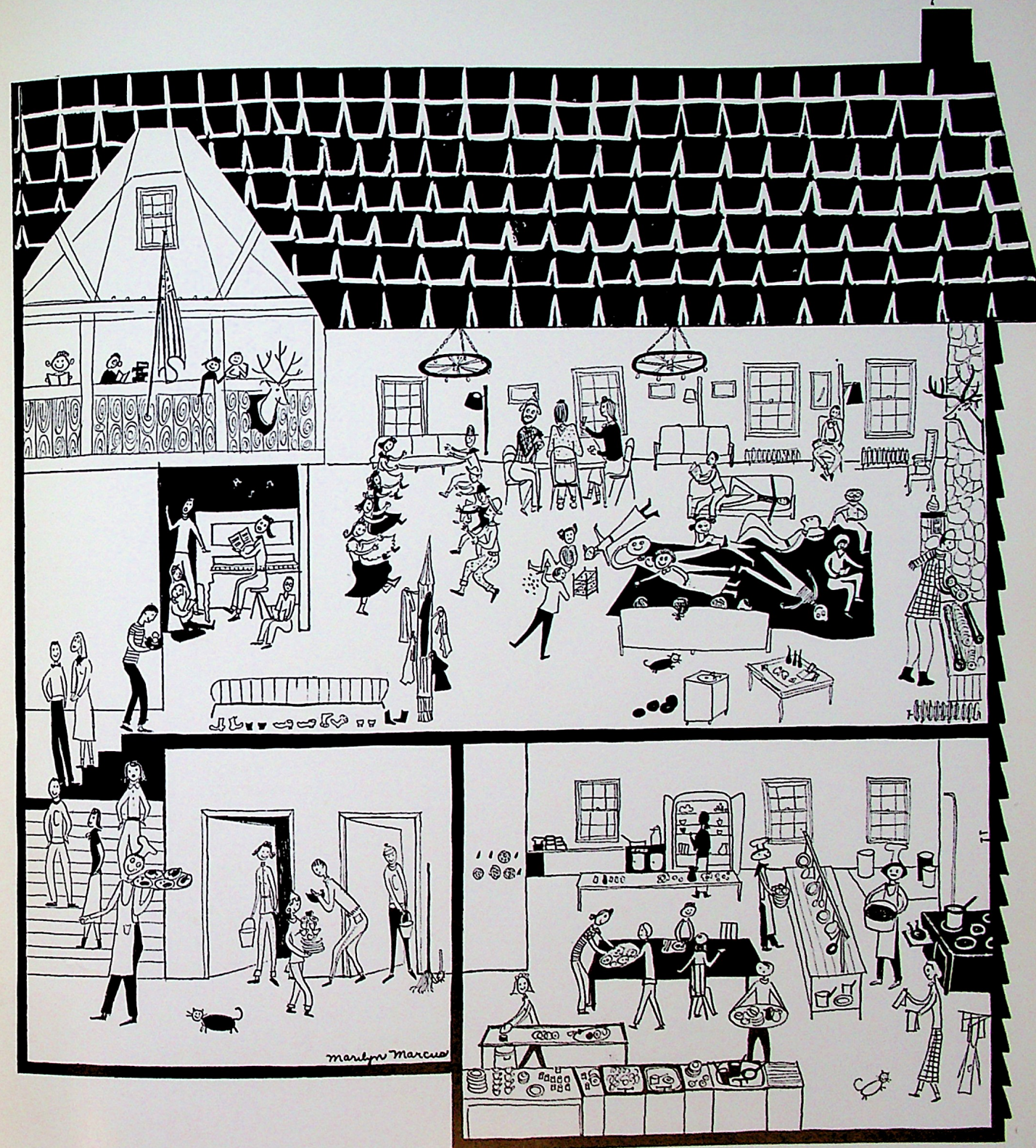
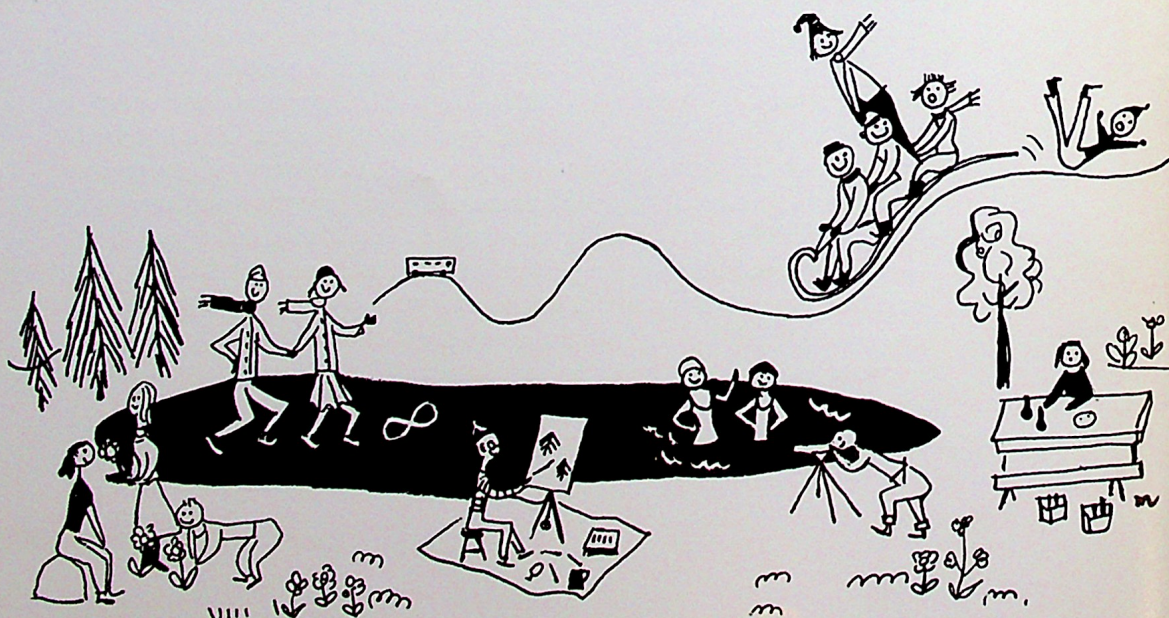
The orientation leader's voice could be heard telling us freshmen about the school we were entering. Homework, student activities, pleasures and work—words to tell us what to expect.

"...and when you get a 30 per cent on your first Physics test don't be too discouraged..."

"Who, me? Get a 30 when I know algebra like mad? He must mean the guy next to me."

Twenty faces with the same thought flashing through their minds.

But we got the papers back and I had 37 per cent.



"Bernie, are you taking your car up for the field day? Darn it, I'll have to go by bus."

"Everyone aboard? O.K. Let's go!"

The driver starts the bus rolling out over Broadway, through the tunnel and into Jersey. Soon we'll be at Green Camp for the field day.

"I've got sixpence, jolly, jolly sixpence..."

Songs accompany the boys and girls as they go. Soon the camp spreads out ahead. Point out the sights to your girl friend. "See, I slept in that building over there on the orientation trip." Play volley ball where I surveyed and you painted. "Marv dug these holes for the markers."

No one really wanted to play games like scavenger hunt, but what a time we had. Brody sitting on *that* seat. Ha!

"Honk, honk." We're ready to go home. Too bad it's so short. So long, Green. Hope to see you soon again.

*The night was dark, the snow was packed,
As down the hill we sped.
With scornful looks we gazed upon
The elm tree straight ahead.
Soon sprawled upon the snow we were.
Our Clothes? The crash had rent 'em.
We didn't have too much good sense,
But God, we had Momentum.*



The announcer's prediction that there would be a slight snow flurry the next day considerably raised my spirits. After all, wasn't a Christmas supposed to be white? I liked snow. I enjoyed the feeling of snow under my feet, and the sight of a white blanket of snow covering the ground pleased my aesthetic sense. It was with eager anticipation that I looked forward to the next day when I was to travel to Green Camp on my first weekend trip. Little did I know that the radio announcer's statement was the understatement of the decade.

When I awoke on the morning of the great day, I saw that the radio had been correct. The fact that the snowfall was considerably more than a mere flurry did not dampen my spirits. I was confident that the snowfall would stop before it could interfere with our activities. With vigor which is characteristic of freshmen (and so uncharacteristic of seniors) I pulled on my boots and made off for the Erie Railroad.

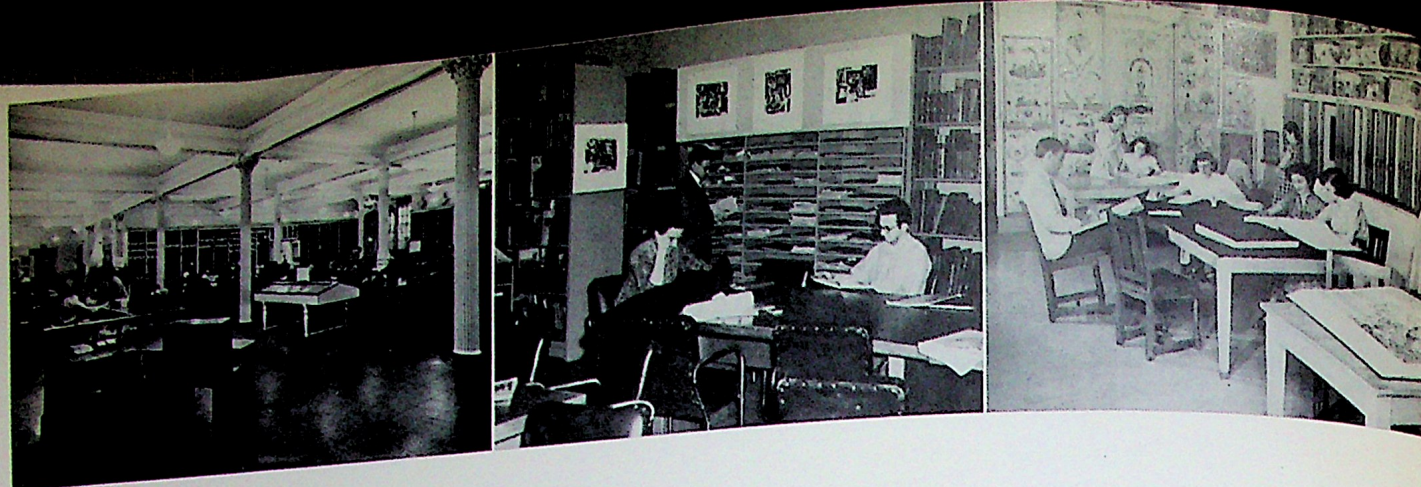
Approximately four hours later, the group arrived at camp after a bus ride that evoked the emotions usually reserved for a roller coaster ride. I was profoundly shocked when we arrived at camp. From the Freshman Orientation session, I remembered Green Camp as a scenic area, with bright green meadows, precisely clipped hedges, and the proud outlines of the Manor House in the background. But now, there was nothing but snow. Gone was the variety of colors, shades and outlines which I had remembered so fondly; all was covered with an immense blanket of snow.

It must be said as a tribute to Cooper's artists and engineers that the snow did not hamper our activities in the least. On the contrary, we made the most of the feeling of camaraderie which the common emergency had given us. For the next four (or more) years, whenever someone related some tale of Camp Green, we would always be able to say, "I was there during the Blizzard of '47."

*To New Jersey's northern border,
To the CE's citadel,
Down the Eagle Valley Road we know so well,
Come the campers all assembled
With their knapsacks raised on high,
And the chorus of their voices raises hell.*

*"We're Cooperites all who have come to play,
Ha, Ha, Ha,
Forgetting all thoughts of school for a day,
Ha, Ha, Ha,
Engineers, Artists, off on a spree,
Coming from New York to Wan-a-que,
West have mercy on such as we,
Ha, Ha, Ha."*





Main Library

Walking up the one flight of stairs from the second floor to the third, one is struck at the top by the inviting doors opening into the library. To the left, the browsing room maintains its atmosphere of informality with newly upholstered chairs and popular volumes on the surrounding shelves. The Humanities Reading Room offers food for more serious thought for there are the collections of books representative of the culture of the world. Over in the Main Reading Room, Peter Cooper's wish for a free reading room is obeyed. Students from other institutions use the facilities of the library for research, people come in to read a book or periodical for an idle hour, and an occasional vagrant or two wanders in to escape the weather.

Behind the desk, Bill Horozan or Johnny McHale can be seen searching the stacks for an old book or for one of the numerous government publications which are kept there.

The Engineering Library is the focal point for engineers. The large tables, serene atmosphere, and numerous technical references and texts provide the ideal spot to work out a problem or a lab report.

Art Library

The corresponding section for the Art School is on the seventh floor in the Art School Library, where there is a collection of books and periodicals dealing with almost every phase of art including history, painting, sculpture, architecture, typography, and lettering. Here too are kept many of the more popular art magazines, such as *Art News*, *Graphics*, and *Interiors*.

Museum

"The forgotten floor of The Cooper Union"—the museum is a weird place between the library and the upper regions where dwell the ChE's and artists. Like a town seen from a passing train, the museum flashes across the windows of the elevator as we journey through school. For those who took the trouble to scratch out their names in the register, the museum proved a fascinating place.

The collections are unique; a condition imposed on them by the nature of the museum itself. Its collection of textiles and needlework is one of the finest in this country. It has a fine assortment of prints and drawings, added to which are the more unusual items such as wallpaper, buttons, hatboxes, and bird cages.

To the specialist in search of specific information, as well as for the student seeking to enhance his knowledge, the museum offers an unparalleled opportunity.

Forum

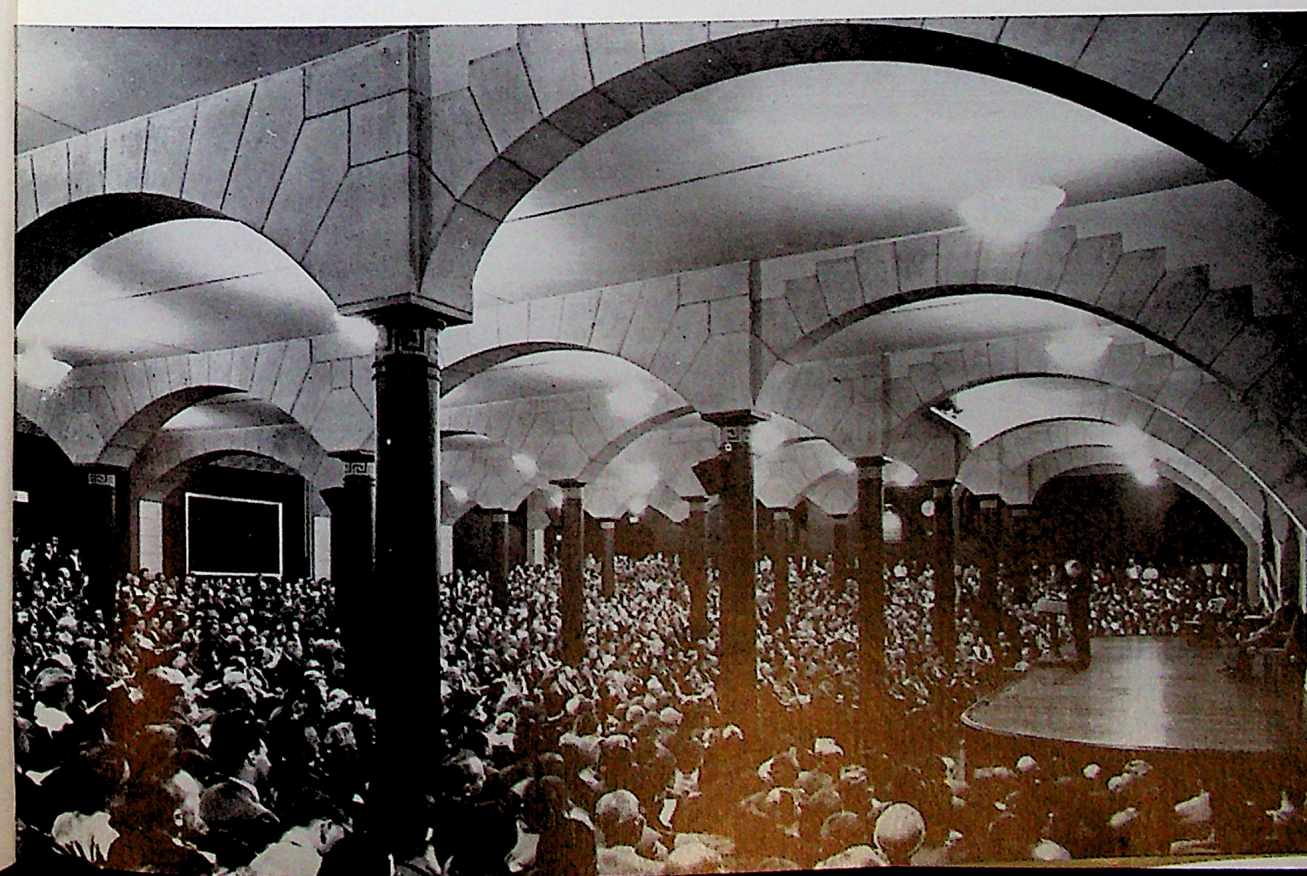
At least once a week, the Great Hall of The Cooper Union is filled to overflowing as many more than the 1800 people permitted try to crane around poles to listen and enjoy one of the programs Professor Fairchild has prepared for them. This is not to infer that on the other two nights the Great Hall is empty—not by any means, for the programs presented are all of the highest caliber.

In the first half of the year, it was the Friday night crowd that stormed the castle, trying their best to locate an advantageous vantage point to view various forms of "The Dance." The performers, gathered from Spain and Mexico, from the farmsteads of the U. S. and the Indian reservations, and including such names as Katherine Dunham's group, were, of course, the attraction.

With the change of program at mid-semester, and the enticing title of "Women" to draw them, the Tuesday night crowd swelled to huge proportions as thousands of people flocked to Cooper to hear Margaret Mead, Lena Levine, and the other interesting lecturers.

Not to neglect Sunday's programs, the timely topics of "The Communication of Ideas" and "America in Crisis" dealt with the radio, the movies, and other popular media of contact; and with a historical resume of the many crises this country has faced.

Many people who attend these lectures have been coming in regularly for thirty or more years. The high quality of this year's series, and the confident anticipation of just as good a job in the future, is bound to swell this number in the years ahead.





THE ART SCHOOL



For some time, they think of Cooper Union as a "far away" place. One day, they find themselves there. There isn't much time to wonder at the achievement, for immediately they are in the midst of an intensive schedule.

It commences with the very first day of school: foundation courses in Two-dimensional Design, Drawing, Sculpture, Architecture, Lettering, Three-dimensional Design; the humanities—English and History of Art.

The first year is a difficult one. The student often enters with a definite idea of his field of interest, and accepts willingly only those courses relating to his choice. Why must a Fine Arts student take architecture? Or why must an architect study painting? English? What does that have to do with art?

Yet, the diversification is necessary. Whatever field the student specializes in, his broad-based training proves an asset in developing all of his artistic faculties. For students who are undecided about their major field of endeavor, the orientation course of the first year provides a sampling of each.

In the second year, the student begins to specialize in one of the three major courses—architecture, fine arts, or graphic arts. Design and creativeness are two elements which are stressed everywhere. Technical ability with different media develops and flourishes—sometimes through patience and perseverance; often, like Topsy, it just grows. As time passes, the student finds an ability to execute his work with ease, where previously he had encountered difficulties or seeming impossibilities of performance.

The Graphic Arts course prepares students for the field of commercial art with studies in advertising and display. The Fine Arts course emphasizes painting and sculpture, allowing for studies in textile design, weaving, book illustration, and lettering. Both Graphic and Fine Arts offer painting, design, and calligraphy.

The architects have a rather all-absorbing interest in their field. They seem to eat, sleep, and live architecture, usually carrying away with them a sense of having accomplished a good deal.

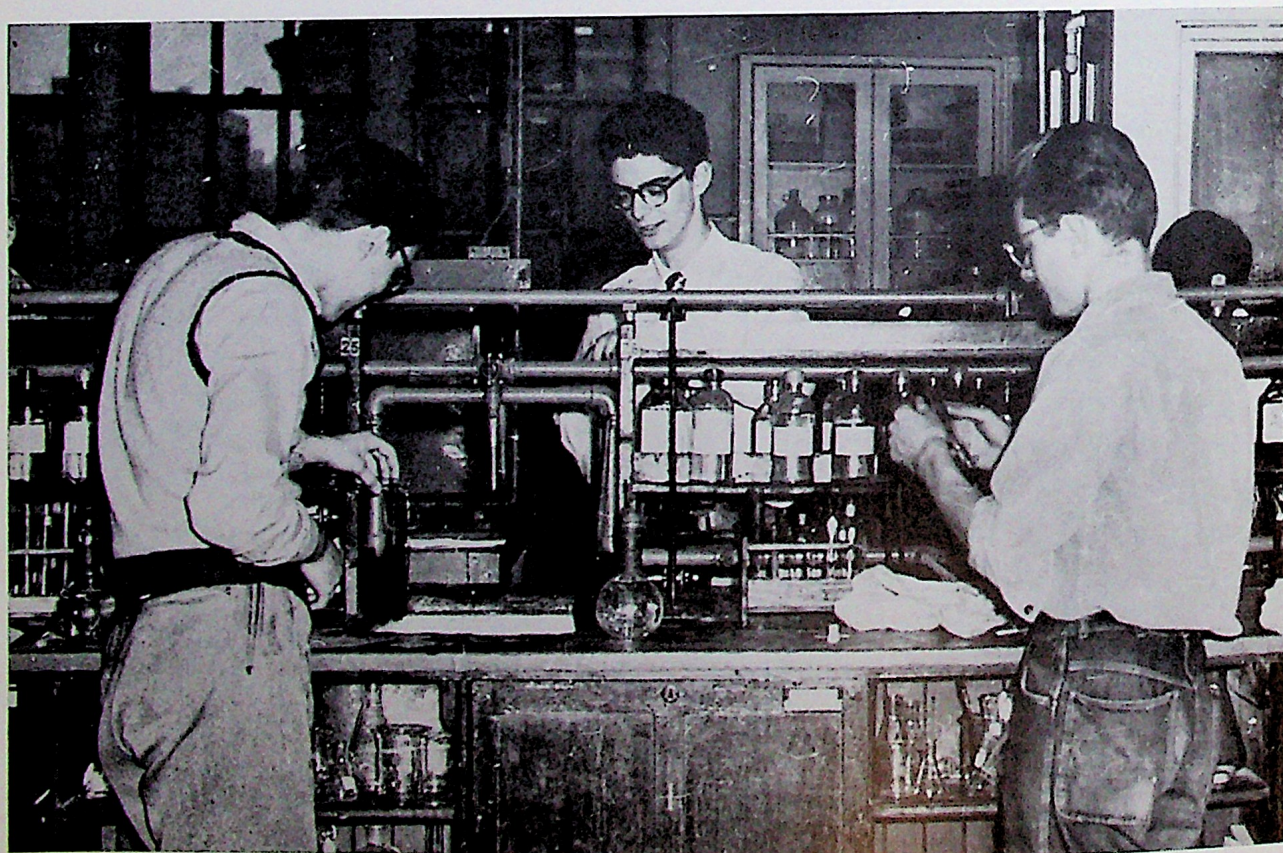
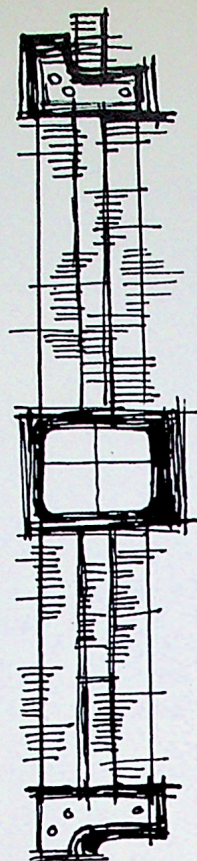
In the night school, the wish most often expressed is for more time. These students, on the whole older and more mature than those in the day session, seem to live in a continual rush. With an all-day job, a few minutes for supper, and classes for the better part of the evening, there never seems to be enough time for school work or life.

The three or more years spent at Cooper have been important ones in the personal, educational, and technical development of those who have studied here. It is impossible to visualize at this point all the advantages gained. Only at some time in the future will we realize fully how much a part of us Cooper has become.

Perhaps more than anything else, we will cherish the friendships that we have made here. Surrounded by people with similar interests, we have developed a new feeling—a feeling of belonging.



THE ENGINEERING SCHOOL



The engineer at Cooper undergoes a thorough, yet mysterious, transformation during his four (or more) vigorous years of college. This can be verified by comparing the bright, youthful look of the optimistic freshman at orientation camp with the glassy-eyed stare of a senior on the morning a lab report or design is due. This superficial difference is but a symptom of the real change, for, you see, the senior is now an 'engineer.'

The first encounter between CU and the freshman is certainly one of the most pleasant—Orientation Camp. With this introduction to the school, the student is supposedly ready for a bewildering first year. The profusion of subjects is somewhat appalling: Descriptive Geometry and Engineering Drawing, English and Math, Physics and Chemistry . . . Professor Hollinger tries to build us up while the others tear us down. For the first time in our lives, precise thinking is expected as a matter of (passing the) course. In this year, we also make our acquaintance with that most exacting of all literary forms, the lab report.

A second more extended excursion to Green Camp fills out the first year. Surveying Fieldwork I represents the alpha and omega of surveying for all but the Civil who, if all goes well, will spend six additional weeks at Green.

At the start of the second year, the students that remain are grouped in classes according to their particular branch of engineering. It is also in the Sophomore Year that the professional courses begin. For the Chemical Engineers, this means Quantitative Analysis and Physical Chemistry; for the Civils, Surveying and Geology; for the Electricals, Electric Circuits; and the M.E.'s ponder the problem of Kinematics. The student delves further into the mysteries of Calculus, ending up with Differential Equations; and into the fields of Electricity, Magnetism, and Light. Public Speaking and the civilization of the Romans and Greeks round out the course. Again, there comes that sad time when some who have not quite made the grade depart from our midst.

On the whole, the courses of the third and fourth years are either courses directly connected with the particular branch of engineering or the Humanities courses. Applications of the principles learned in the first two years and an emphasis upon practical considerations really cause the change in attitude which makes an engineer.

At the end of an arduous four years, the Senior should look both backward and forward. In the somewhat sentimental light of retrospection, the friendships made, the pleasant, if hectic, round of extra-curricular activities outweigh the 2 A.M. sessions over lab reports. There also comes a growing sense of gratitude for the opportunity presented by The Cooper Union. At present, the future looks much less pleasant. The prospect before us is dismal indeed. Wars and rumors make a long period of military service probable for many of us. At this time students again ask the centuries-old question, "Why do the nations so furiously rage . . .?"



R E F L E C T I O N S

I cannot speak of yesterday
Or of the day before
But of this minute,
Now.

Here little knotted forms gather and flow,
Caught in the constant flux,
In the shift of static and dynamic balances.
Here is no web of childish intrigues,
No lack of purpose.

You staunch studious sliders of the rule!
Will you find the logarithms of existence,
the chemistry of life,
the roads of struggle,
the bridges of endeavor,
the mechanics of love?

You perservering poets of perfection!
Can you paint the form of being,
the aesthetic of aspiration,
the symmetry of emotion,
the pattern of experience,
the color of strife?

You empirical thinkers
And you students of abstraction
Are greatly limited,
Caught in the constant flux,
in the shift
of static
and dynamic
balances.



A "C.E." with traverse unclosed,
 Racked his brain with the problem this posed,
 Till with pick and large shovel,
 He moved dirt and rubble,
 And his error of closure bulldozed.

Unquestionably the building which dominates the subway exits is Wanamaker's. So I had to tell my cousin, "Cooper is across the way, the erh . . . chocolate colored one." My bright-eyed cousin wanted to study at Cooper and I took him down to "enjoy our urban location" as the catalogue would have it. In a further attempt to save him, I proposed to show him every engineer's nook from the non-taboo top, i.e. fifth floor, down.

The elevator shaft, I pointed out as we were (squeeze, groan) waiting, was Cooper's first bore, though by no means its last (faculty forbid). As we drifted upward I promised Gerald he would ever after recognize the fifth floor blindfolded.

Getting off, Gerald choked. "I smell what you mean."

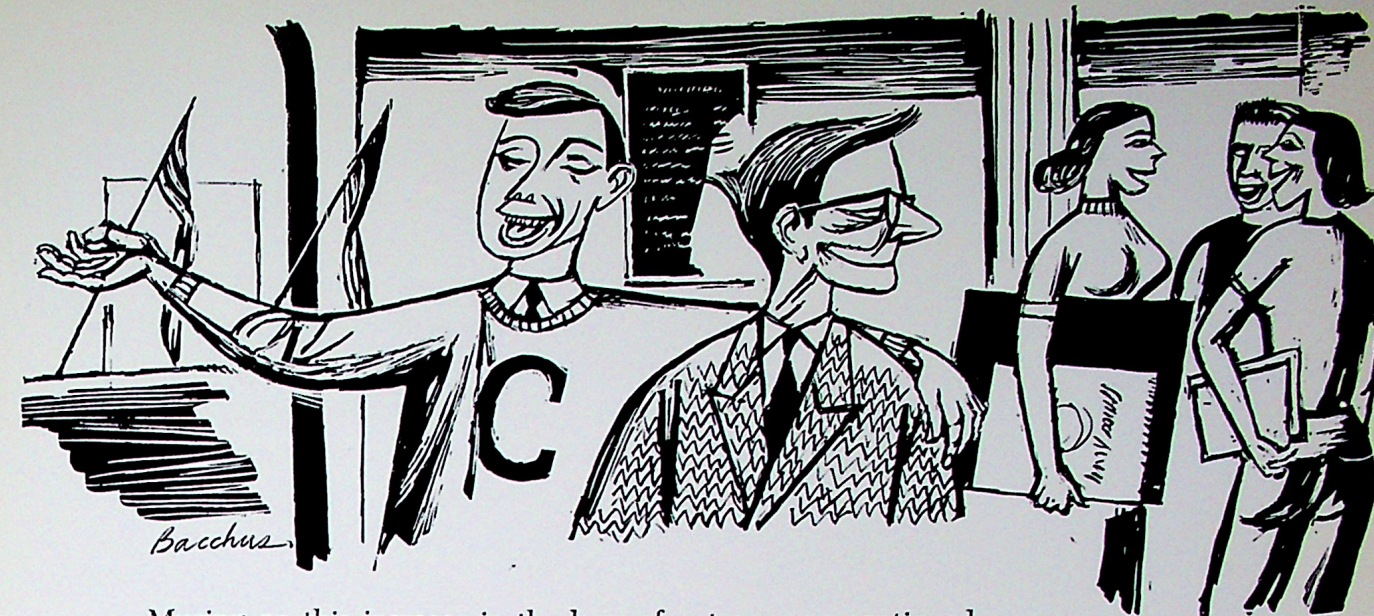
"But that isn't it at all, Gerald," I corrected. "Let me give you a hint. What sets this locker lined hall apart from a mausoleum?"

"By Zeus," he ejaculated, "it's the sound effects. But thunder, man, why don't they do something about this snap, crackle, and poltergeist?"

I explained patiently, "More students owe their passing (?) Chem I to this elementary noise maker than to the H₂S fumes."

On the way from the fifth floor to the third, Gerald gave me some trouble. He insisted that there must necessarily be a floor between. The fellow would disregard the testimony of four years of Cooper engineers. He has me worried.

"The third floor enshrines," I whispered, "our temple of learning. Instead of an ordinary washroom it possesses a browsing chamber. It pains me," I travelogued, "that you cannot possibly appreciate the unique character of this room. It undergoes constant metamorphosis of walls, furniture and floors, yet it manages to remain essentially unimproved."



Musing on this increase in the laws of entropy, we continued on to the second floor, where Gerald insisted on meeting the Admissions Officer. "After all," he snapped, "I have a right to meet this W.S.W. and tell him what I think of his entrance exam."

By sheer physical force, I managed to take him downstairs to the lobby, where we were greeted by enthusiastic salesmen for the A.A., A.P., Cable, Annual Dance, and Gideon Bible Society. How the representative of the last sneaked in I'll never know. Gerald looked very like a freshman who didn't know what it was all about, so they ganged up on him. The A.A. took his right arm, the A.P. took his left arm, the Cable took his right leg, the Annual Dance took his left leg, and the Gideon Bible preyed for his soul.

Escaping, we continued on to the lowest level of Purgatory, which, I told him, was fondly known as the "Great Hall Adjoining the Great Hole." "Here," I said, "every American President from Lincoln to Wilson has spoken." Gerald was unimpressed. "So what, I'll bet none of them ever came back." I'm afraid the boy has something there.

Moving on to the molar masticating chamber(s) we were welcomed by the pleasantly cool atmosphere and the dew on the fresh concrete walls. When Gerald had recuperated from a spasm of "coffee" induced coughing, I told him of other and better men who had been unable to retain the brew, but he felt heartbroken nevertheless.

Staggering up the staircase and out into the refreshing pall of the Third Avenue "El," he recovered enough to mutter "I always did like City."

Verily young man I say unto thee marry not an artist, for the artist is a strange being, possessed of many devils; yea, she speaketh eternally in poetic images and abstractions, and she hath no Bible, but consulteth with tomes of necromancy, which she calleth lettering guides and color charts.

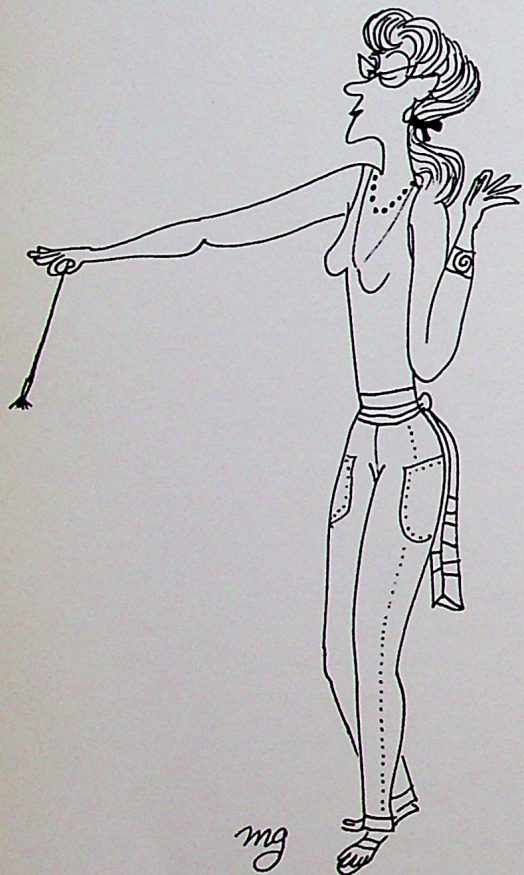
She talketh always of balance and design, and without end doth she worship at the shrine of the gods Picasso and Dali. She showeth always an other-worldly aspect and seemeth to know nought of practical affairs; and she looketh not upon the form of a man as a man, but as a model for an heroic statue; neither doth she sit on a footstool quietly, as becometh a modest damsel, but must needs exclaim over the pattern of the grain; nor doth she know the water for its thirst quenching, but murmureth ever and anon of clear limpid sparkling brooks.

Always she carrieth her sketch pad with her and she entertaineth her lover with etchings. Verily, though he burneth for kisses, she bringeth him talk of Platonic love.

Yea, she holdeth his hand, but only to study the creases of his palm, and cuddleth only to feel the formation of the musculature. In her eyes shineth a faraway look which is not love but a longing to return to her easel and palette.

There is but one key to her heart, and that is an untouched virgin canvas, and one handsome shape for which she yearneth and that a "Schutzy"; and when to her beaux she writeth of love and signeth with lip imprints, take not these symbols for kisses, but rather for color samples.

Even as a maiden, she prattleth of aesthetics and eludeth her suitors, but as a woman she learneth the wiles and ways of her sex, and leadeth on the unwary to serve as her models, and then refuseth them their reward; she inscribeth her passion on a canvas and her marriage is the mating of abstraction and concretion, and the fruit thereof is an indescribable heterogeny of color and line and form.



Young man,
you look like a rooster
parading up and down
in front of a choice hen
the way you pace past me.
You also put me in mind
of the pigeons
who strut, following the wind
in search of crumbs.



"God, it's cold out tonight. That ale helps a little, but it's not enough. Where the hell can we get warm?"

"Looka, there's a crowd a' people standin' outside the school. I think they're havin' one of those speeches tonight. They're free. We could go in an' get warmed up."

"Yeah, at least I won't freeze to death. Come on."

"What's the speech gonna be about?"

"How should I know? Why dont'cha read the bulletin board if you're so interested?"

"It says the subject is 'The Feeling of Rejection.' What does that mean?"

"It means you and me. We're rejected. Come on. Let's go downstairs where it's warm."

• • •

"Listening to this guy is makin' me fall asleep."

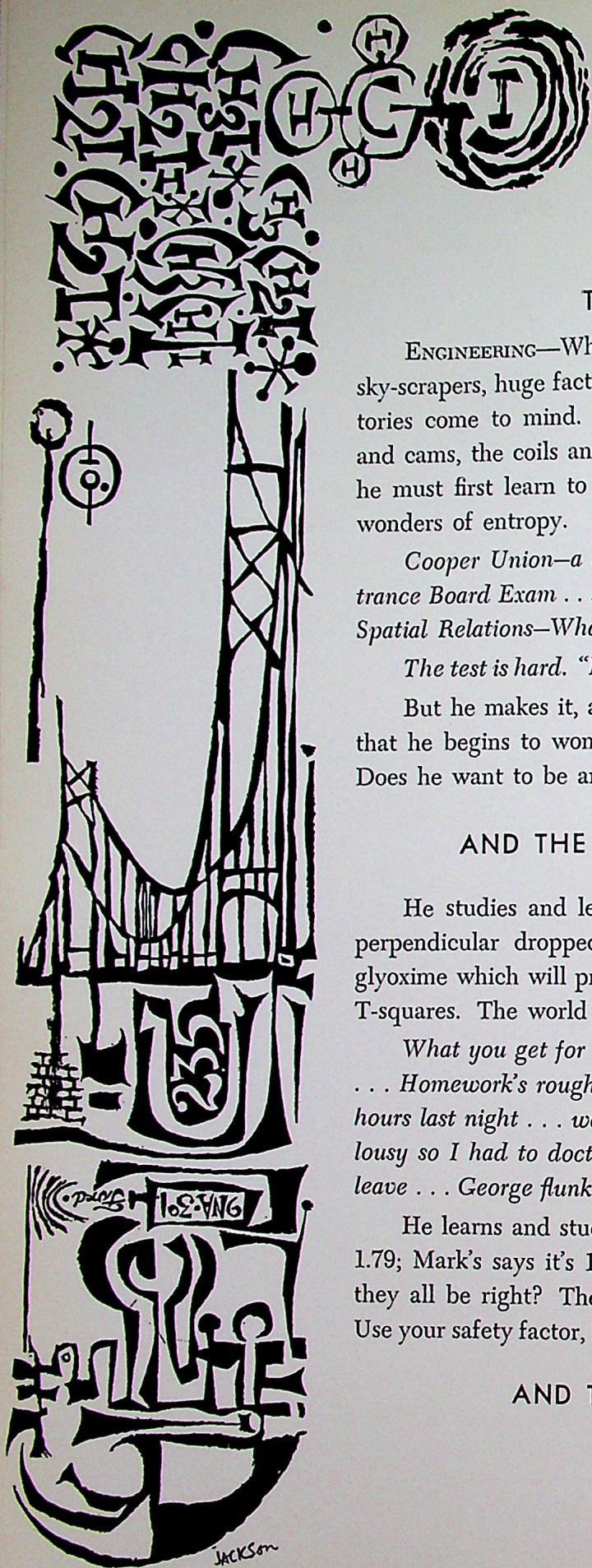
"Well don't. If they catch you snoozin', they throw you out."

"When does he finish? I hope he keeps goin' all night. At least it's warm in here."

"They chase everyone out about ten o'clock, so you might as well get ready. It's only a couple of minutes now."

• • •

"You got twenny cents? We can go into McSorley's and getta couple shots."



THE BOY DECIDES

ENGINEERING—Why? Say engineering and great visions of sky-scrapers, huge factories, assembly lines, Frankensteinian laboratories come to mind. He will recreate the universe in the gears and cams, the coils and resistors, the concrete and chemicals. But he must first learn to unlock the secrets of the integral sign, the wonders of entropy.

Cooper Union—a school to find these things . . . College Entrance Board Exam . . . Math . . . English . . . Physics . . . Chem . . . Spatial Relations—What the hell is that? . . .

The test is hard. "I'll never pass this thing. It'll have to be City."

But he makes it, and he wonders why. So many others didn't that he begins to wonder if he really knows what engineering is. Does he want to be an engineer? Can he be an engineer?

AND THE YOUTH ENTERS COLLEGE

He studies and learns. The limit of a function varies as the perpendicular dropped from a point in space on the dimethyl glyoxime which will precipitate the gravitational constant from the T-squares. The world is a formula. The slide rule a god.

What you get for the fourth problem? 3.1897? Couldn't do it. . . . Homework's rough . . . Slept only six hours last night . . . four hours last night . . . went to sleep at four . . . The lab results were lousy so I had to doctor the curve . . . Did you hear? Joe took a leave . . . George flunked out . . . Bill hasn't been in for a week . . .

He learns and studies. Kent's Handbook gives as the constant 1.79; Mark's says it's 1.83; my text says 1.80 and yours 1.75. Can they all be right? The world is no formula. It is trial and error. Use your safety factor, for life, not your formula, is sacrosanct.

AND THE MAN GRADUATES



At intermittent periods, a crashing of glass was audible from the wind ravished streets below. The rain was being caught in the furiously whirling wind and sent whipping about the hurrying legs of the pedestrians who ventured out in the freakish November day. Traffic was stopped, busses rerouted to the utter confusion of the public and, I presume, the drivers also. The rain and wind abated for a moment but then returned with even greater gusto than before, bringing with this renewal more destruction, smashed windows, wavering lamp posts, and automobiles with newly acquired punctured tires limping to the nearest repair station. The wind made an eerie piercing sound as it came whistling down our bathroom ventilator bringing the city soot with it. We made several attempts to go down for food but the radio forecasts seemed too impressive and foreboding to disobey. With the "near-hurricane" going about its inspection of New York, and most people snug in their homes, there appeared to me an answer to why life, in the face of oppressing forces, still goes on. A clanking of bottles sent me to the window and there, with all this tumult going on about him, a Coca Cola delivery man was leisurely going about unloading a half a dozen cases of Cokes for the candy store. The persistence of the being we call "man" is far greater than is assumed upon first scrutiny: as long as man is alive he will go about the task of keeping himself alive. All the disaster going on around him will not affect him so much as will his own personal needs.

A young man spoke to me just now.

His voice said, "It will be a rainy night."

But his eyes said, 'We are both human; let us be friends;

let us be two people and share a great experience.'

His eyes are urgent, but I hold myself aloof,

for I am one person complete, and sufficient,

and there is no wish for another.

I was sitting in a movie when the film broke right in the middle and pandemonium raged until the damage was repaired. Sounded just like it does Thursdays when the library presents its film program here at Cooper. Boy, you never saw such a critical audience as this Cooper bunch. The focus must be just right, and God forbid if the film breaks, they almost lynch the projectionist. As if it were his fault. You know how it is, the films are all good stuff, but to get them for nothing you don't get A-1 prints. Sometimes the camera goes on the blink too, like the time we had that Disney trip film. Nice picture and all that, but boom, right in the middle the projector blows a fuse and no sound. The movie plays but not a peep to be heard. Luckily one fellow got the bright idea to start playing the piano in time to the picture. Sounded just like the old time movies.

As I say, they try to get us good films, stuff that can't be seen elsewhere. Right in the beginning of the year we had one by Salvatore Dali, the crazy one, you know him. Dead horses and stuff like that. They talked about the picture for weeks around the school. Who runs it? I told you, the library. Why don't you come down next Thursday? OK, See you then. S'long.

I wade slush slush through puddles of leaves,
The wind whooshes around me,
My face smarts red,
I race with a gust of wind
and stop panting to watch it hurry on.

I
tumble
down
a hill
and get up
leafy, laughing.

The flustered ducks cry futilely at drifting leaves.
I gulp great gusts of clean cold wind
Which blow away yesterday's dead thoughts with dead leaves,
And leave me fresh and bare to receive Tomorrow's.



Peter da Coop

Peter da Coop, da greata philan,
Ees pretty good fella, wanna fine man;
Heesa builda da Onion, oo gotta top rates,
Eet'sa besta da school, in alla da States.

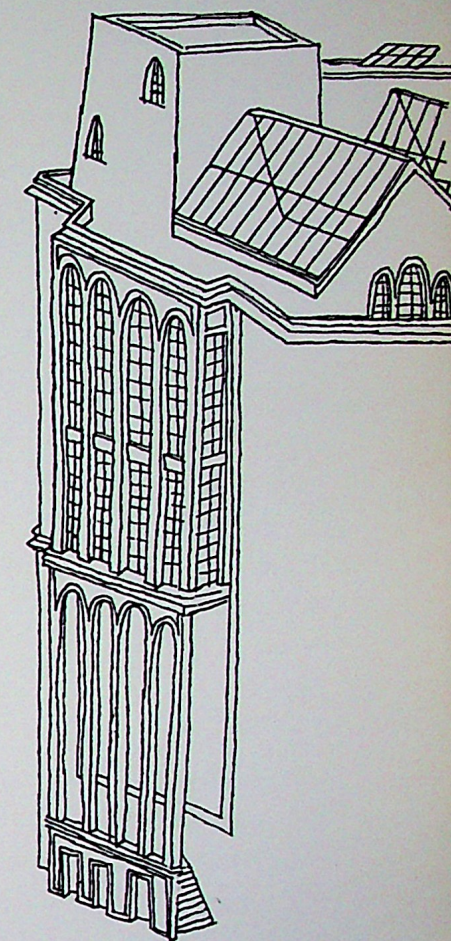
She gotta Foundash an also da Hew,
An a lectrica train, eet'sa runna right tru.
Da cramps she'sa small, but no canna be beat,
Ees lasta long time, eet'sa made concrete.

Da clock onna wall, she keepsa good time,
When she maka da tick, she'sa tocka weeth mine;
Da statcha a Coop, dey puts inna da street,
Sitsa heem down, tek load offa da feet.

When maka da shaft, heesa meening well ment,
But da elevat, she'sa no yet invent.
Dey maka her beam, no usa da wood,
Railroada track, eesa hold preety good.

She's besta school, eena worl ahm convince,
Ya come outta da Ein, or elsa Da Vince.
Eef lectcha you like, dena t'ree tima week,
Ees go anna hear da biga shot speak.

Peter da Coop, ee knows ees no joke,
When you wan educatch, an finda you broke;
But da wanna ting bad, I mussa confess,
Ta passa da course, gotta taka da tess.





Familiar Places

Familiar Faces

In and Out

Around and About

Cooper

*Scenes you have seen
Scenes you will remember
Little things that will
always mean
I've been there*

RECORDED MOMENTS

In the Shadow of the Statue



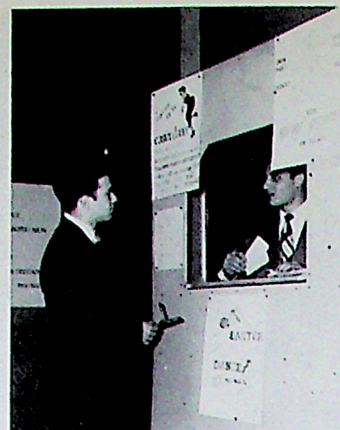
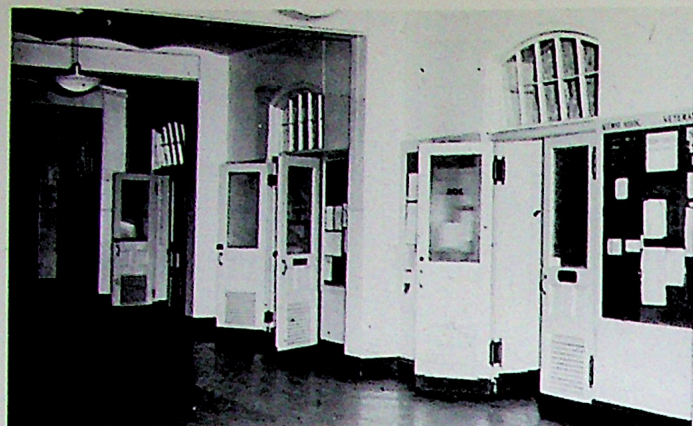
*Was "Old Pete"
Scorekeeper in
Your paddle tennis game?*

*Did the "El" wake
You in lecture?*

*Did you buy
Ice cream from Sam?*



*Knitting or eating, playing or studying, this is our city campus; the
background to our life at Cooper.*



Inner Sanctum . . .

"Two, please . . ."

For the

A.P. Dance . . .



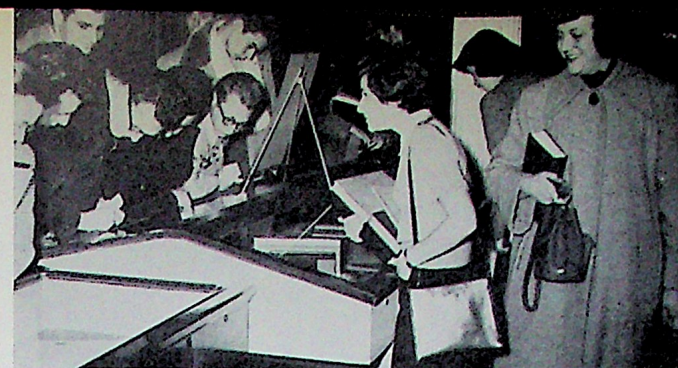
Here, to help you recall the year, are a few of the things we did. From the first annual "Beat Pratt" rally, to the Annual ChE Reception these things are the tradition that the students have built up. Look at the pictures and find yourself, for surely you were there.

Tie Sale . . .

Forum . . .

Speeches for

A prize . . .



In honor of Edna St. Vincent Millay



In King Arthur's Court



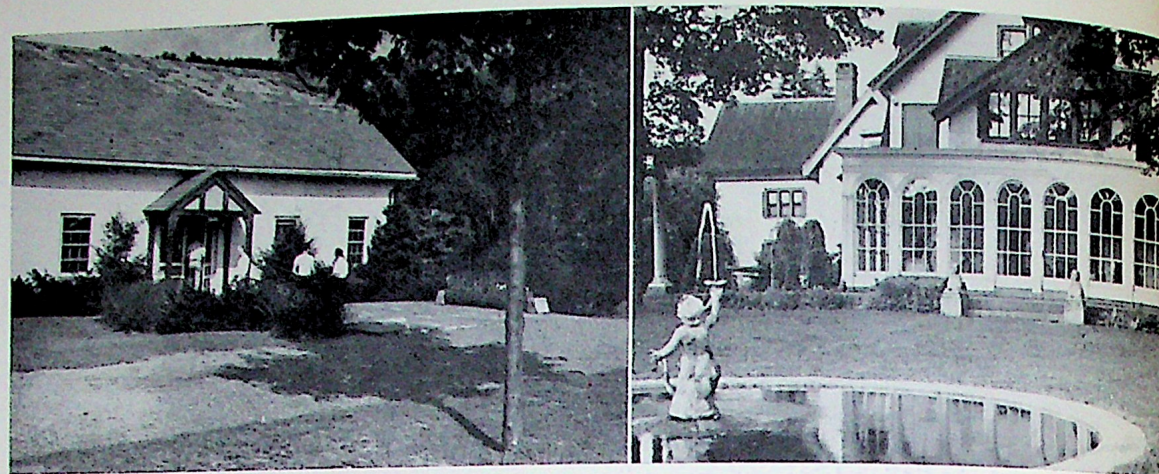
Beat Pratt



"Shure, and 'tis Michael's"



Annual Prance



Green Camp . . . a thousand acres of campus for school-weary students . . . a place to relax and forget for a while the rigors of academic life.



Camp Green Days

Camp trips

Orientation

Surveying

Painting

Baseball

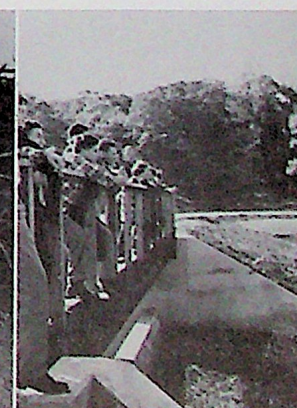
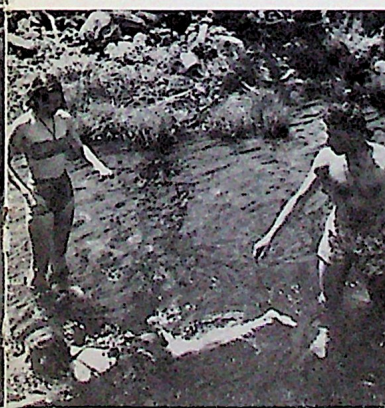
Hiking

Tobogganing

Skiing

Lounging

Skating



Swimming

Transition

Playing



People and Places

You have passed many of these scenes many times, although you probably never really noticed them. Put all together though, they are the things that really make up our school. It is not walls and classrooms that are Cooper, but that seat by the window, that spot on the bulletin board and that bar of candy you had for lunch.



Rushing to class and taking tests is no fun. It's that extra minute of gab by the bulletin board or the time taken to smoke a cigarette that makes us feel human again.



*Strawberry Shortcake
Huckleberry Pie
V-I-C-T-O-R-Y*



*The reserves,
Watching, waiting,
Always ready*



*Squatting in
the sunshine
seat*



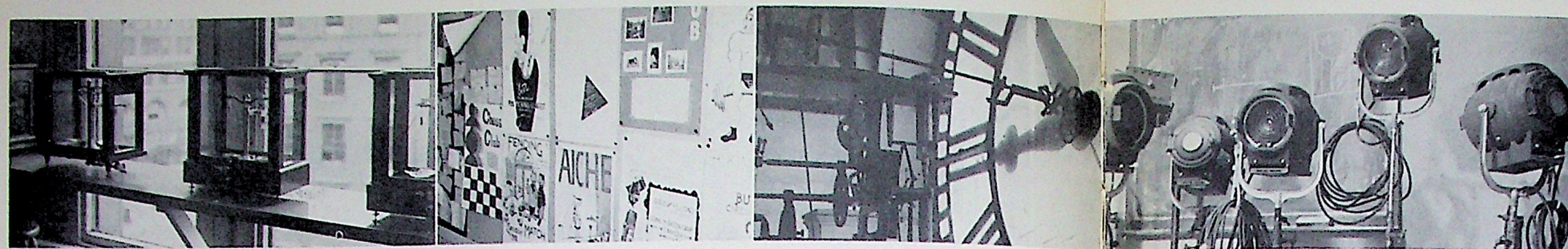
*"Whadyuh need, triangle,
paint brush, books? You pays
your money and you takes yer
cherse."*



*Careful of that fuse. Blow it,
and it takes a week to replace.
"Oh, Mr. Hardy, would you
check my wiring?"*

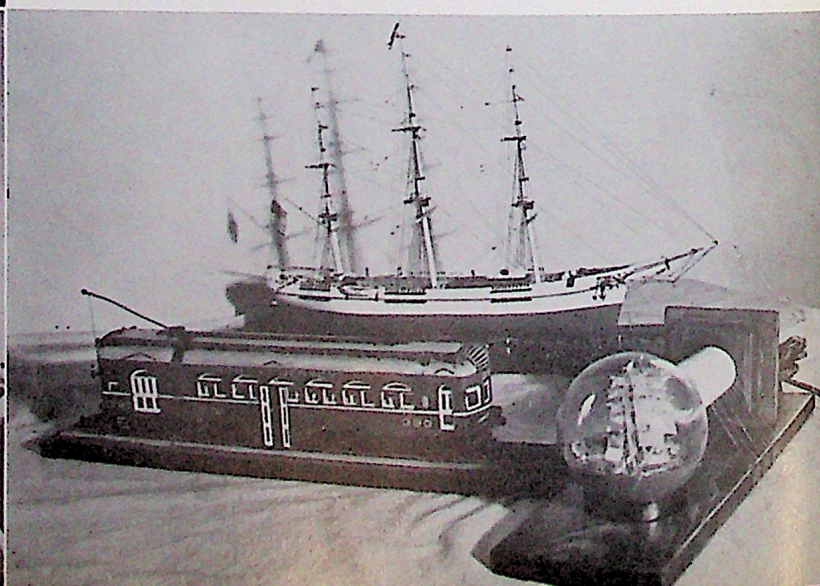


*Balance those weights care-
fully, for when you pull the
pin, the body might just move.
 $F=ma$, you know.*



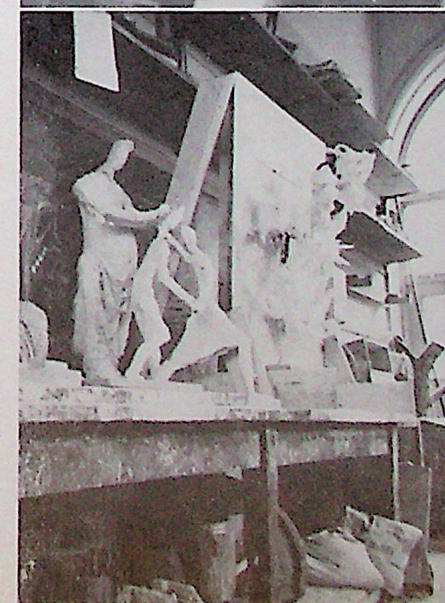
Time at Cooper is something weighed out carefully and spent in classes, in clubs, on hobbies, and on romance. These are the snapshots reflecting the life of a school and the students who live it.

From the decor of the Art School Office to the litter of the sculpting rooms; from the tomb-like silence of an exam to the angry clamor of the Ford engine, come the contrasts and similarities that make up The Cooper Union.

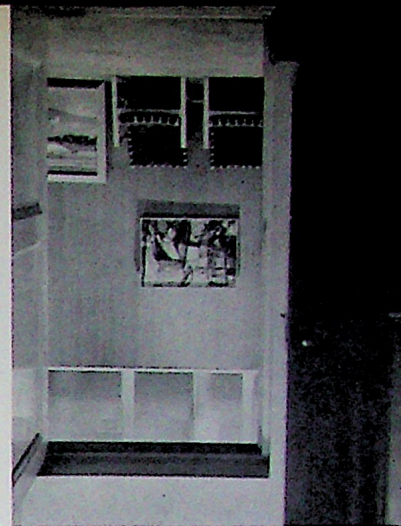


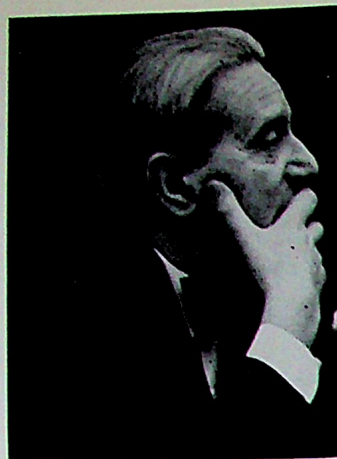
From this . . . Beauty

Music and Meditation



Dynamic Forms





ZUCKER

To Learn is Human; To Teach, Divine.



DELEVANTE



DE LOPATECKI



SCHUTZ



MARSICANO



KRATINA

WALLACE



BOGUCZ



LEHMANN



LUSTIG



WOLDMAN

These are some of the faces we see each day in classrooms, in laboratories, in offices. These are members of our faculty.

More often than not we are inclined to take them for granted. Yet they too are human beings, with the same hopes, ideals, and aspirations that motivate the rest of us. They differ from us only in that they are our creditors and we their debtors. A moment's reflection on your part, reader, will tell how much you really owe to these people. Think, reader...



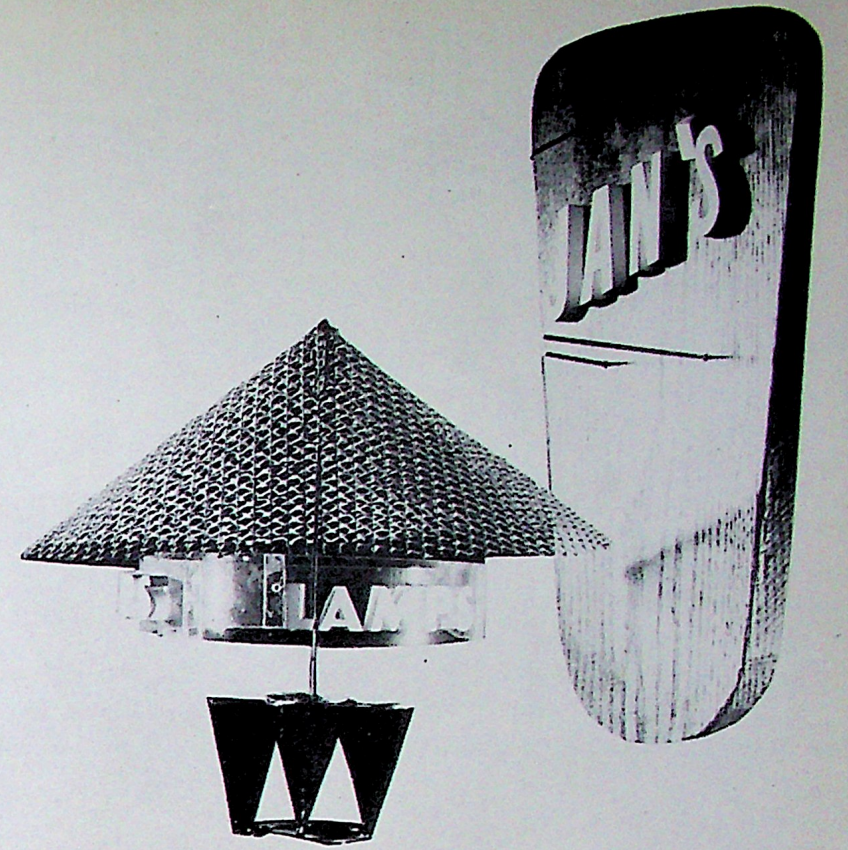
PETERSEN

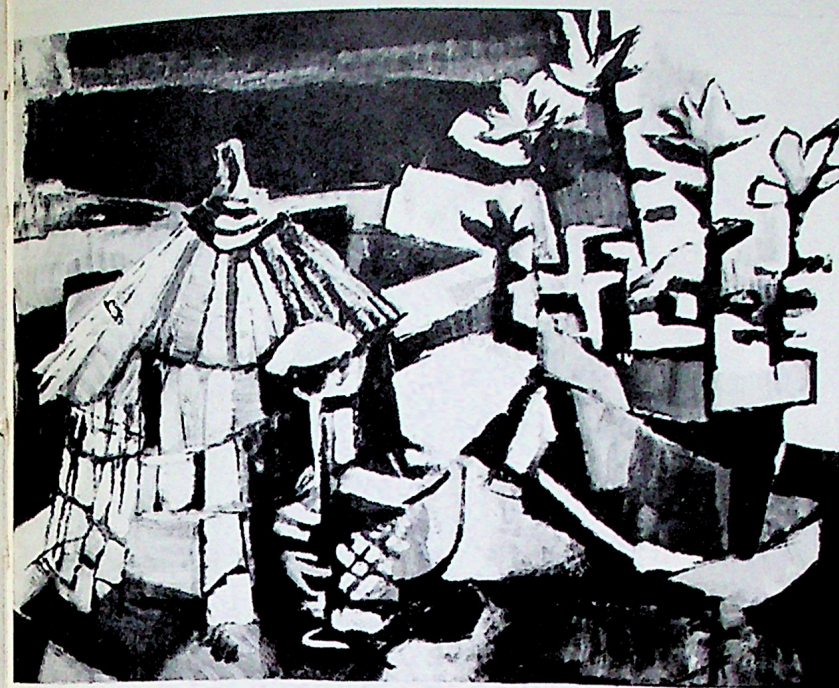
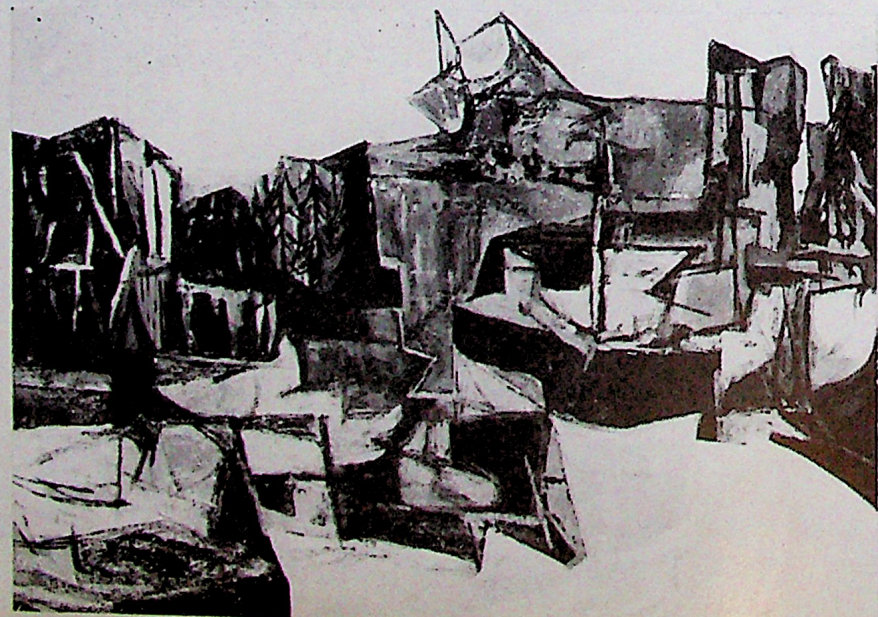
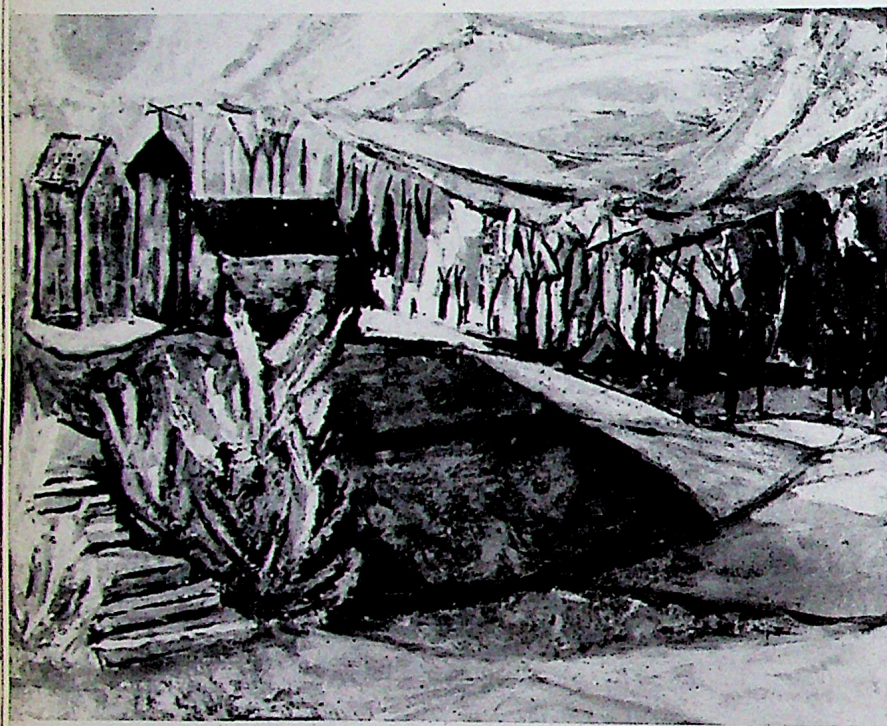
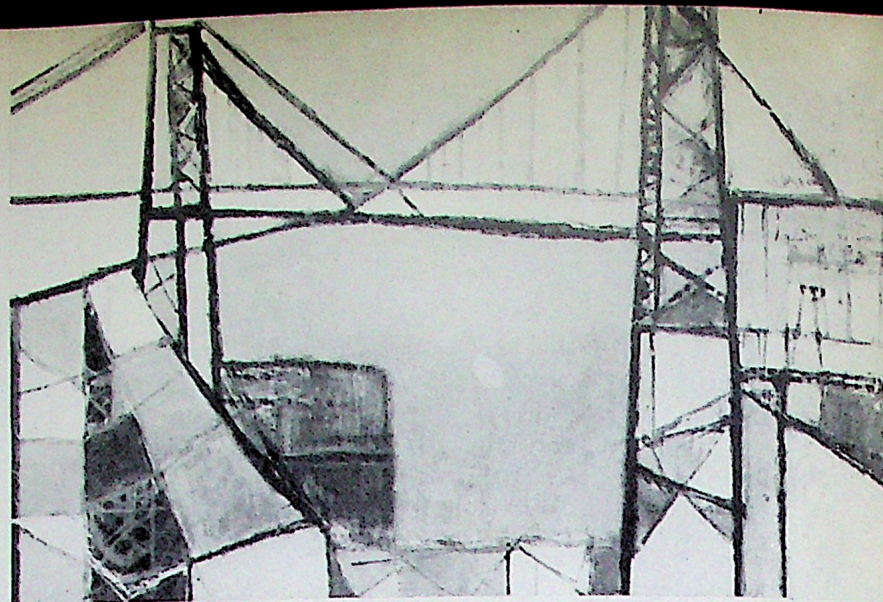


CALDIERO



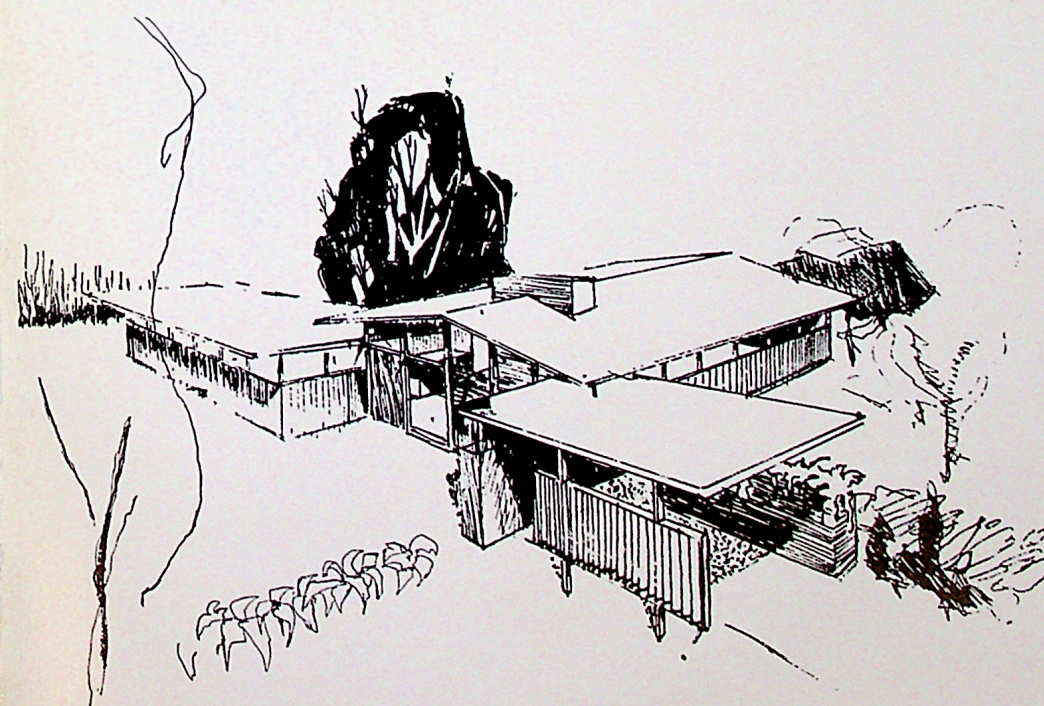
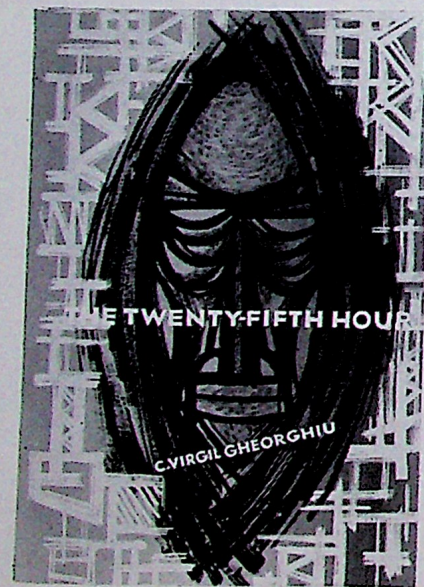
ART





60

design and paper



The Youth's Song

Prologue

That which is beyond his grasping
He attempts to seduce by repetition
Him who he is not yet he pantomimes

Part 1:

THE TRANSITION

*'Enter within these ancient embattlements
Wherein these gates the turbulent masses dwell
Embrace all this your inheritance'*

Beyond the slowly moving gates their gazes pass
A section of the city is beheld
Framed within the arch

Conglomeration of structures
The red blue white heat of seething energies
The tumult immersed in black grey white smoke

Since Divine Will dictates
They transcend from their former place
Departing from childhood's world where once they dwelled

And as the gates close
Their lips pale lips once livened by their mother's milk
The youths fear the alien state of being

Clashing with the rhythms of the city
Their fears rebound against the walls
Returning in discordant fragments to their ears

*'We at pantomime did play
In the moonlight world of yesterday*

*For the city lay hidden beyond the sheltering walls
And our gods fed us in the Eden they made to flourish*

Now at puberty we run the gauntlet
Where hidden lurks the shaman's knife
Preparing to sever
The cord that united us with the womb

The voice of the city beckons
And we are destined to appear before their temples

The jealous gods await our sworn allegiance
We join the masked and painted throngs

Now poised and donned in warriors' garb we stand
And as the altars ashes rain
We are like the autumn leaves taking flight
Rising in our flame'

Part 2:

THE WISH

*From Eden to the gates of toil they transcend
Secretly bearing the inborn desire*

*From the state of sheltered bliss to dawn
They know not living without their awakening senses*

And they ask

*'Where beyond the embattlements of unfulfilling toil
May we put aside the mask*

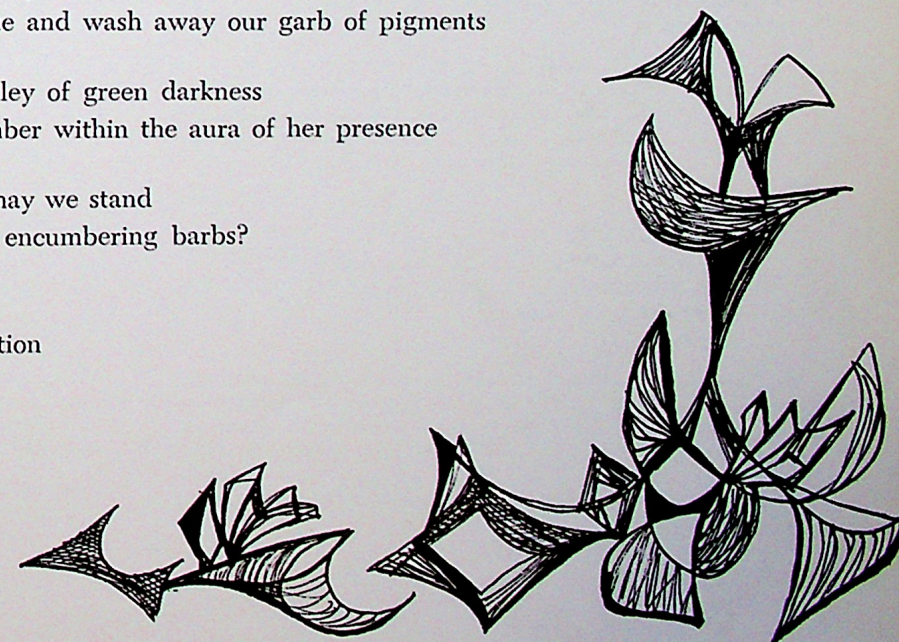
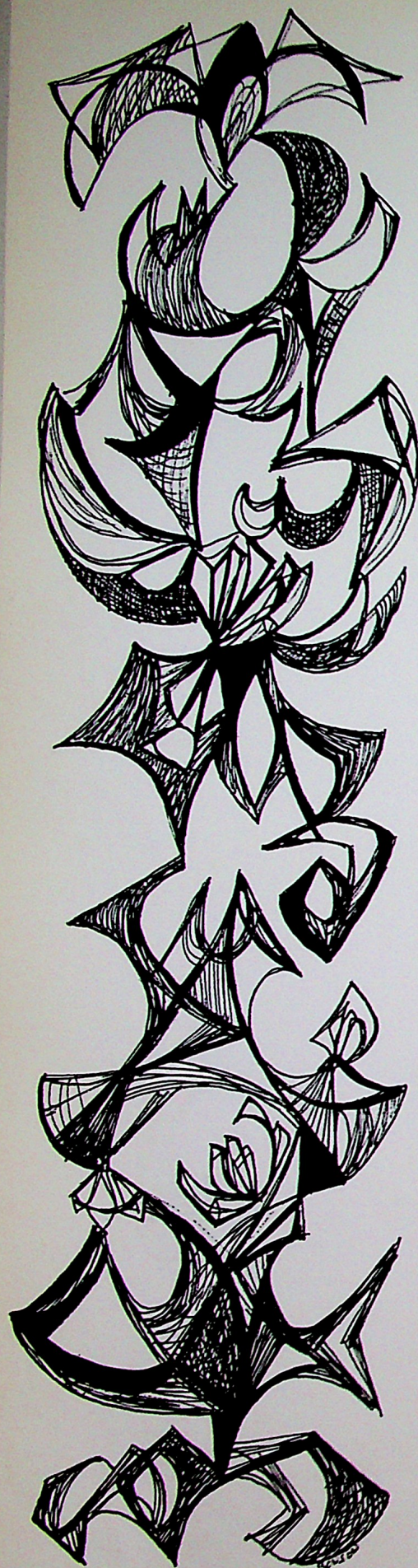
*Where springs the crystal water
That we may bathe and wash away our garb of pigments*

*Where lies the valley of green darkness
That we may slumber within the aura of her presence*

*On what summit may we stand
To cast away the encumbering barbs?*

Epilogue

Where lies that obscure station



BETTY J. ABBOT

Betty's our little girl from Tennessee. We don't know how she ever heard of Cooper Union 'way down thar' but we're sure glad she did. Betty doesn't say much, but lets her work talk for her.

NINA ASTOSHORIK

The 'Big Little Girl' of the Night Art School, Nina has turned out some fine work during her stay at Cooper. Besides being a good worker, she is known for her charming smile, patience, and quiet humor.

GEORGE F. ADAM

George is the quiet one in the CE class, but someday he will surprise everyone by hatching an ostrich in Macy's window. An ardent fisherman, George is intimately acquainted with the flora and fauna of the East Coast.

PHILIP B. AUERBACH

The President of Tau Beta Pi, Phil started his engineering career in the aircraft industry, and is now designer for a plant machinery manufacturer. The father of two boys, he likes to spend his spare time improving his home.

ISIDORE ADLERSTEIN

Commonly known as 'Issy,' this Graphic Arts student gave himself to the art world of children each summer. The class will miss his congenial smile and his bright colors in advertising.

HAMID BACCHUS

The illustrating field will claim Hamid, and his diligence and sincerity. A member of the Volleyball Team, this tall and handsome boy has displayed an ability in painting. His personality is reflected in his use of subtle, intense colors.

ANTHONY J. AHEARN

All the girls agree he's a sweet and considerate guy. His drawings show his prolific and versatile imagination. Any time you want anything done, just ask Tony.

RUTH BALOT

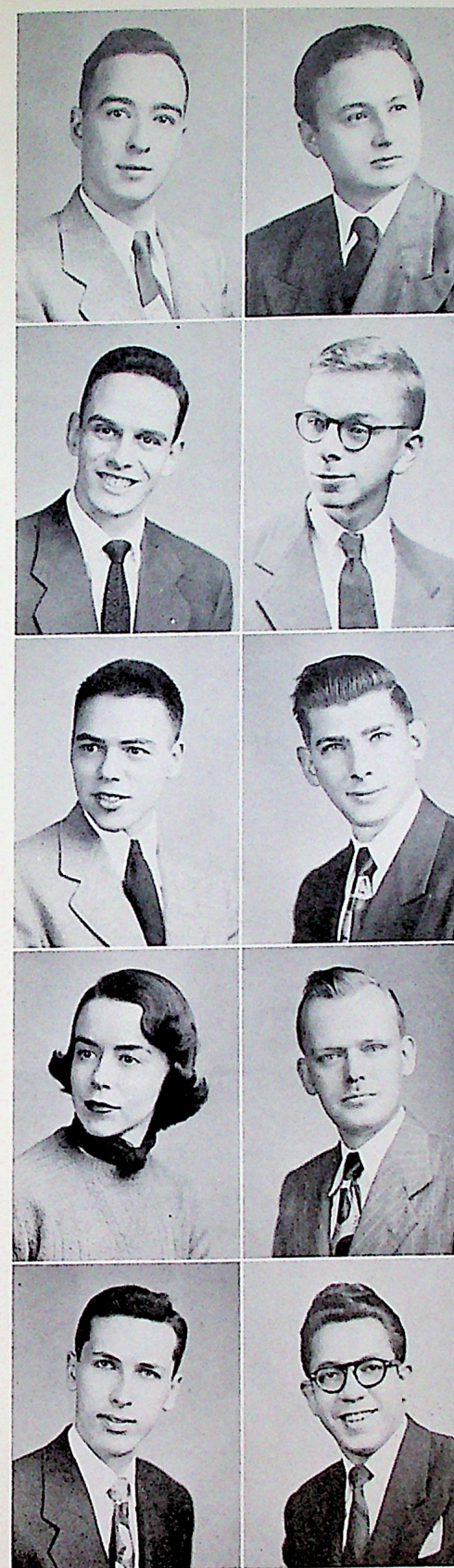
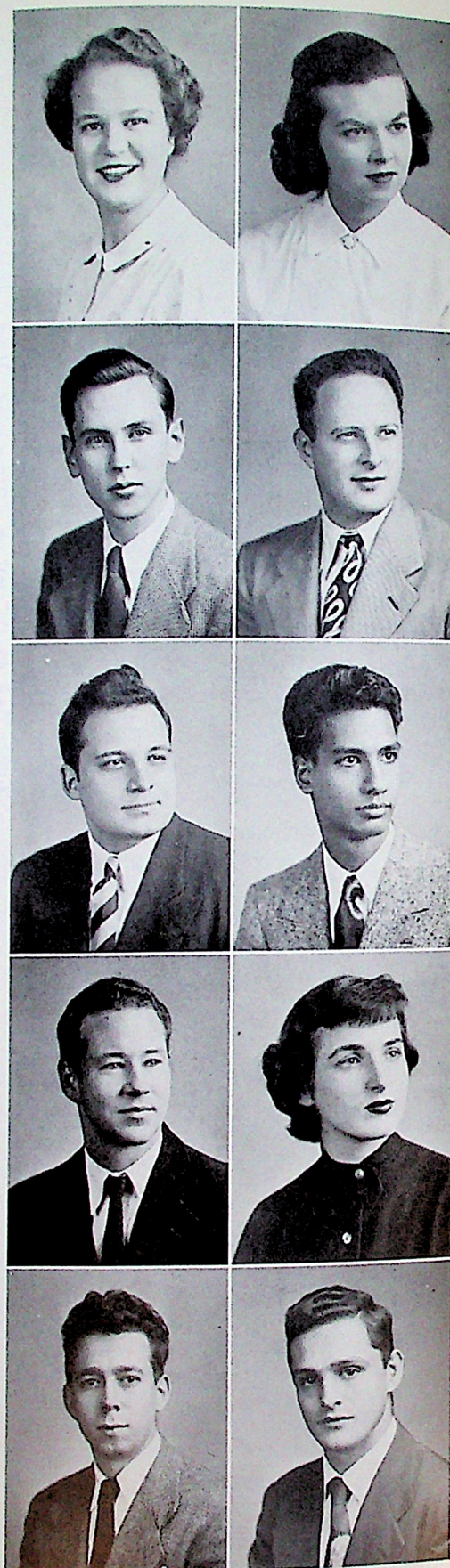
Ruth follows the rather tempestuous routine of wife, salesgirl, and student. You can generally find her hard at work at her easel, or busily spinning and weaving at her loom.

MORRIS ALTMAN

The father of two boys, Morris likes to go sailing whenever he has the time. His other interests include photography and radio.

DONALD BASS

If Don had a beard, he would be constantly mumbling into it, but as it is, he is responsible for the soothing murmur that pervades the classroom. Active in AA affairs, he holds among his other accomplishments that of being so frequently awakened that he manages to complete his homework on time.

**BENJAMIN F. BAYMAN**

In the Ch E. Department when books fail and professors fall by the wayside, when all seems lost, Bennie comes to the rescue. He is active in the activities of Tau Beta Pi, Humanities Club, CABLE, and Hiking Club, to name but a few. School activities fail to fill up his time, however, and he shows interest in world activities and music.

BOHDAN BORZEMSKY

Dan has the continental touch. With his gallant manners, he has managed to charm classmates and teachers for four years. His colorful designs and illustrations reflect his native background and restless personality.

HARRY BERNSTEIN

'H.B.' had the distinction of being one of the best dressed men on the campus. Besides managing the varsity basketball team and running the financial affairs of the AA, Harry was Prior of A.M.S.

CONRAD N. BRANDFONBRENER

Don't let that quiet exterior deceive you—Connie's wonderful smile and hearty laugh have won him many friends. His piano playing talents are always in demand at parties.

RAPHAEL BOGUSLAV

Here we have a capable graphic artist and calligrapher. Ray's musical abilities find constant expression in the Folk Song Group. His interpretations of Bach and Scarlatti have graced pianos at Green Camp and in the Cooper lunchroom.

JAY BRANDINGER

Better known as W2VOZ, Jay entered the throes of fatherhood just as he was running the experiment on the Capacitor Motor. His son, Paul Edward received a miniature slide rule from the class and is now busy working Poppa's Atomic Physics homework.

MARY A. BOHAN

Now that the grind is over, Mary intends to start another long term at school in order to earn her Master's Degree in Art. Once she starts teaching, we're sure her students will find her as charming as her classmates did.

HAROLD W. BREDIN

Fair-haired and well dressed, Hal is one of the nicest fellows in the graduating class. Though he takes an avid interest in his work, he was always ready to beat the 10 p.m. bell.

LAWRENCE J. BOOKBINDER

Larry was a member of the Radio Club and one of the mainstays of the EE's volleyball team. Freshmen who played in the Intramurals suspected that he wore Adler's elevators. He generally ate lunch at "Club 65" overlooking Astor Place.

SHELDON BRODY

A junior size genius, Shelly is one third of an inseparable trio. He is part owner of a studio near school, where burning the midnight oil and a candle at both ends is not an uncommon practice. One of the top men in the advertising class, he always manages to come up with something new.



GILDA S. BROTMAN

Gilda is one of the Cooper Union beauties who was snatched from the stag-line during the middle of the semester. The whole school wishes her the best of luck as Mrs. Waldman and hopes she'll remain the same sweet girl.

EDWARD J. CARSTENS

After two years in the Day School, Ed decided that he wanted to see Cooper by moonlight, and he transferred to Night School. Among other things, he has been a machinist, mechanic, and pilot instructor.



EILEEN BROWN

One of the nicest people in the night school, Eileen worked hard in the Fine Arts Course. She added to her work at school by being an active member of the Newman Club.

LILLIAN CHARNEY

Lilly is industrious in and out of class. Besides working on the Cable and Pioneer, and winning the Gold C, she was President and one of the original members of I.Z.F.A.



HAROLD J. BRUDER

This CABLE Staff member is high scorer of the Art School basketball team. Bruder and his partner Don already have a good head start in the textile field.

JOSEPH E. CHINGAS

This night EE got his "sea legs" while attending Cooper. He commuted every day from Staten Island.

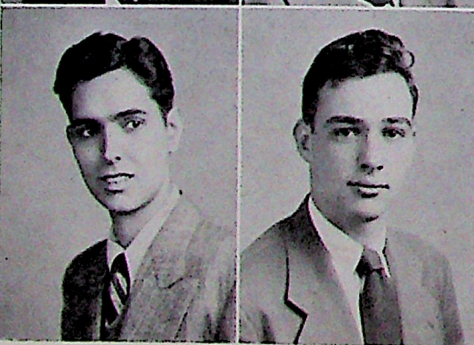


ALBERT J. CALVI

Al has such a nice easy-going manner that few realize how hard he has worked on his paintings and drawings. The work itself is of the highest caliber and has gained him a reputation as one of the fine-Fine Artists.

GEORGE CHIPURA

A veteran pilot in the U.S. Navy, he claims to have come too close to the propellor of his plane. The haircut he received has lasted to this day and has fascinated people who want to run their fingers through it.



RALPH CARO

A quiet student, Ralph has shown himself to be an earnest, assiduous worker. Aside from his art work he has participated in a number of sports, particularly basketball, handball, and volleyball.

SEYMOUR CHWAST

Seymour is a thoroughly professional advertising man. His sharp sense of humor constantly makes itself felt in his work. Participation in the Cable, Pioneer, and Design Plus have extended the Chwast touch throughout school.

VICTOR A. CIRRINGIONE

After three years, Vic decided that it was lonely going home to just a T-square and drawing table—so this young architect decided to get married. We now presume that he has a better incentive to finish his homework.

GEORGE C. COMMANDEROS

This ex-marine needs little prompting to tell any of his hilarious war memoirs. George is a crack cartoonist, architect, and debator par excellence.

ROBERT W. CLEMENS

Bob is another ME who won't be sorry when June rolls around. But within two weeks, he'll probably miss the old place.

ROSE C. COREY

There's no such thing as a quiet day with Bonnie. If she's not running up with some new creation on her sewing machine, you can find her photographing textiles with her new Rolliflex. She designs clothes for all occasions and models them also.

ELEANOR G. COHEN

One of the few female members of the Day Architect Class, Eleanor was active in many varied phases of Cooper Student activities. Besides being president and one of the stars of the Dramatic Club, she became president of the Day Art Senior C Class. Many people will remember her fine speech at the Ninetieth Anniversary Convocation.

SALVATORE A. DAMBRA

Sal was honored with membership in Pi Tau Sigma. In addition, he was the Chairman of the Night School's chapter of the A.S.M.E.

ELEANORE COHEN

Everybody's "right-hand-man" Ellie was one of the wheels that kept the Pioneer, Cable, and A.P. running smoothly. In her three years at Cooper, she has won a Silver C, membership in Lambda Tau and Ex Post Facto, and Stanley. Student activities at Cooper will sorely miss the influence of the combination of Marcus and Cohen.

WALTER J. DAUKSHER

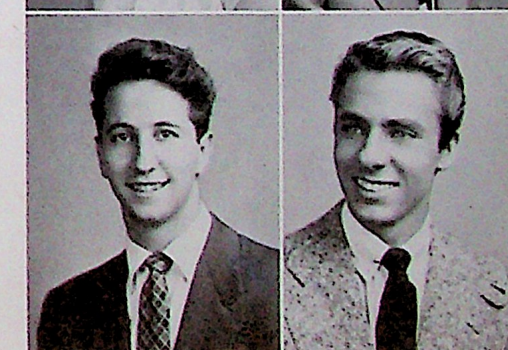
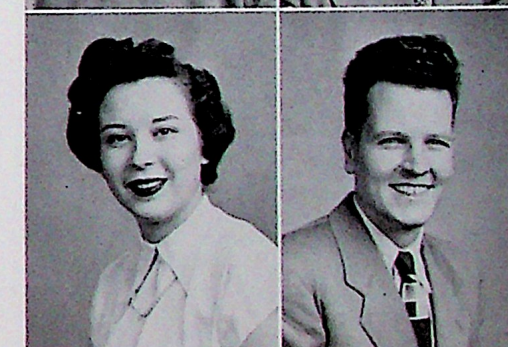
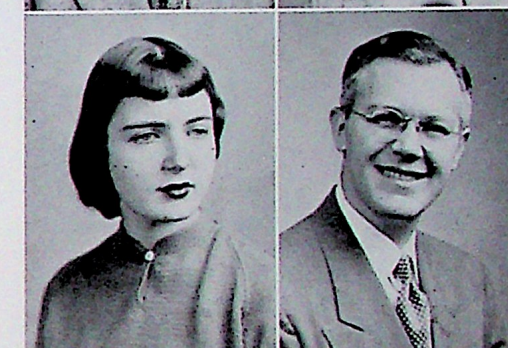
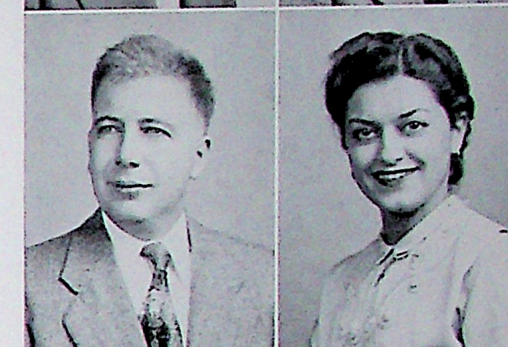
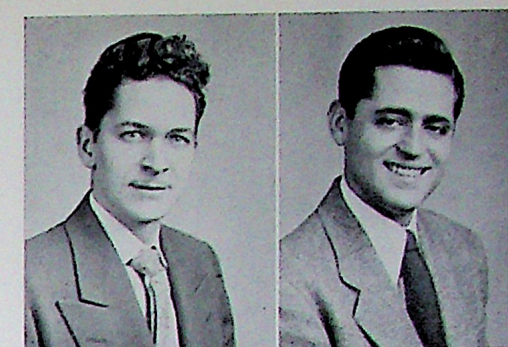
A student member of the AIEE, Walter combined his vocation with his avocation. His hobbies are in the field of Electronics and Mechanics.

HARVEY W. COHEN

Harvey is the boy who paints over paintings. He likes texture and shows it in his work. Interested in women and art (in that order) he has an amazing power of concentration.

HALPERT S. DAVIS

Sam is known as the Beau Brummel of the Art School. Famous also for his affinity for photostats and zippotone, and his excellent literary taste, Hal was one of the leading citizens of the sixth floor.



JOSEPH B. DELVALLE

This suave man-about-Cooper is already on his way up, having won a Negro-in-the-Arts Scholarship. A Cable staff member, Joe's impeccable work will surely find the advertising field ready to receive him.

ANN P. DIMIN

Ann knows that not everyone can catch an architect from Yale. Some can—she has. Ann danced her way through school and was admired for her vim, vigor and vitality.

HARRY R. DePOLO

Harry is a hardworking architect and architecture student. Dapper looking, he could easily model for Esquire (the advertising section, that is).

ROBERT DOLOBOWSKY

Bob was part of an unusual combination for almost three years. He shared classes with his lovely wife, and between the two of them, they turned out some of the best work seen here. If you caught Bob looking tired, the mention of his baby daughter would revive him.

DONALD R. DESJARDIN

Here is a boy with talent and personality. What more could a man want—except the degree of BME, and he'll have that too, soon.

PEARL DORNBLUM

If the Gold C awards went any higher, Pearl should be awarded a Diamond C, studded with rhinestones. Besides being President of the Fourth Year Night Art Class, and Secretary of the Student Council, she collected money for the A.P., wrote for the Pioneer, and is a Cable Editor.

PETER F. DIAFERIA

This ex-Marine is a member of the artistic school of realism. He will always be remembered in future years as the one student who could always be relied on to arrive at school at a quarter of nine.

FRANK M. DU PONT

A member of Pi Tau Sigma, Frank is married, and has one child. He intends to do some post-graduate work at Brooklyn Polytech in the field of heat exchangers. Building Construction is one of Frank's hobbies.

ARNOLD DI GIULIO

With his nose in his work, he always gets things done (things being lab reports). Never one to do things partially, he always aimed for an A.

JESSIE F. EGAN

Jessie has been active in such activities as the Newman Club and leading Camp Green Trips. After graduation, she would like to teach art and continue her education.

**ROLF ERIKSON**

Rolf intends to become an Art Director after his graduation from Cooper. His outside interests include Sports, Photography, and Girls. (Not necessarily in that order.)

RUBIN FEINBERG

Rube was one of the few veterans in the Senior Class. With four years of Army life and two years of college to his credit, he decided it was time to settle down. His wife therefore wrote his lab reports during his last two years at Cooper.

WILLIAM H. EVERS

Big Bill was president of ODP and the Bowling Club. As president of the AIEE, he was largely responsible for the greater interest that the EE's took in their professional society this year.

NORMAN FELDMAN

Known from Third Avenue to Nevada for his beard and his physical prowess, Flip will lift a sack of potatoes with his teeth as readily as he whips out the latest snapshots of his nephew.

EMERSON FARWELL

A constant source of surprise, he turned up high on the scholastic list despite a grueling post-office job during his three years at Cooper. His huge fund of knowledge and his talent for reproducing the weirdest sounds amazed the entire class.

DAVID W. FISHERMAN

Dave has done considerable research and development work in the field of photography and polarized light. The Vice-President of the Night Chapter of the AICHE, he is a tennis and handball enthusiast.

HARRIET FEIG

Harriet's the girl who staged the "shingle" craze at Cooper. Despite her enthusiastic participation in Senior Social Life (look Ma, she's dancin') you'd never find her with less than three books under her arm.

CLAIRE FISHMAN

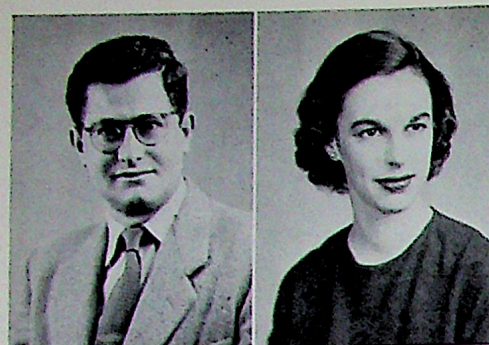
Claire is always exploring new subjects for paintings. The results are consistently pleasing.

LEON FEIGIN

Leon is a fellow whose company was enjoyed by all. He works hard and long, but this doesn't make him a dull boy.

AUDREY L. FLACK

Audrey's determination and her devotion to her work are already a young legend among her classmates; her handling of color is still envied in many quarters. And who else arrives at school with the Tribune crossword puzzle already finished?



MURRAY FLEMINGER

Murray attends Brooklyn College by day, and Cooper Union by night. He has done some outstanding work in the field of Fine Arts, and intends to make his mark in the field of Art Education.

VOULETTI FULTON

Mount Holyoke's gift to Cooper, she is the sophisticated lady we all admire. Letty is the one girl who has everything—talent, beauty and brains. But please don't ask her why they call her Letty.

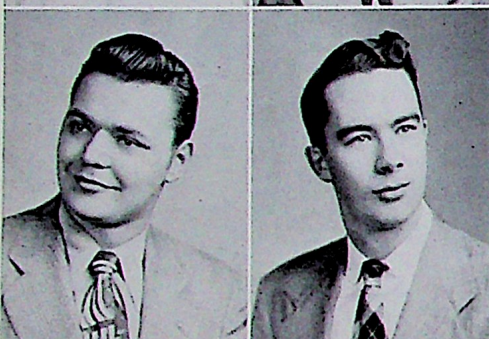


BAYLA S. FOSTER

A dexterous artist, she was Design Plus's link with the fair sex. Sue was noted for her ready wit and her excellent results on Deadline Day.

STUART J. FURMAN

Stuart is an aggressive verbalist with an inquisitive and calculating mind. An adroit draftsman, and refreshing planner, he intends to go into city planning after graduation.

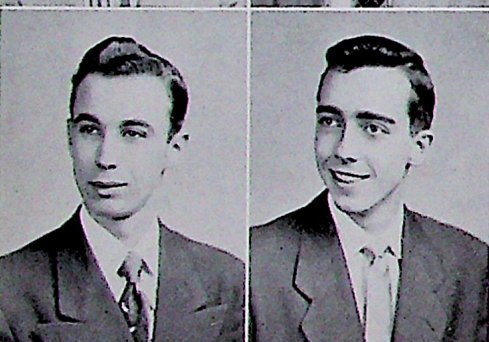


ARTHUR M. FRANK

Frank is always ready to admit his faults, but as he so modestly admits, he has none. His usefulness to the CE class lies in the fact that he provides transportation for his classmates.

GEORGE S. GARDNER

One of the die-hard Industrial Designers, he is the model maker extraordinary. George prefers plaid design but accepts blank checks. His ability to apply himself is his major asset.



FREDERIC B. FREYER

If you think all the long faces at Cooper are due to the war, you're wrong. They're caused by the fact that Freddie joined the Navy. The President of the Senior Class, Editor of the A.A. News, and M.C. at the A.A. Dinner was able to keep the combined Art and Engineering Schools in a state of continued good humor.

BYRON GIBBS

The bright eyed wonder of Benton and Bowles produced some of the best work in the Night Advertising Class. Byron's constantly neat appearance was reflected in his homework.



MORTON FUCHS

Morty's caustic wit never fails to evoke a laugh, and sometimes, he laughs, too. He can usually be found with his nose in a book, or with his paintbrush in front of an easel.

MILTON GLASER

Big (size 14 shoes), omniscient Milt is single-handedly responsible for most of the strange mannerisms of Design Plus. His fine tenor voice was enjoyed by all.

THOMAS H. GLASSER

"Guzzler" Glasser, became the first casualty of the post war period when his G.I. Bill ran out in his Senior Year. With philosophic calm, he faced the inevitable lean years by buying his supplies before the end of his junior year on the "You know who pays" basis.

WILLIAM GORDON

Wealthy Willie G. has the distinction of setting his brother-in-law up in business while still an undergraduate. The fact that he purveys Senior Jewelry, Time, Life, A.P. cards, and is Treasurer of LSK had nothing to do with it. Willie was Secretary of the Student Council and Chairman of the Green Camp Committee. He is truly George.

STANLEY E. GOLDSTEIN

Stan has all the attributes of a good EE. He is still trying to find out whether a rotating field rotates, revolves, or stands still, in time, or space.

CHARLES S. GOTTLIEB

Charles always thinks out each problem one step further than those who have tried it before him. An easy going person with a subtle sense of humor, he has had some commercial experience.

SIDNEY GOMBERG

A Fine Artist in the realistic vein, Sid is conscientious both inside and outside of school. A married man before he came to Cooper, he also served a long hitch in the Navy.

DONALD M. GOULD

"Sardonic Don"—I CAN'T TAKE THIS ANYMORE. The Senior Class was spellbound by his eloquent statement.

JACK D. GOODMAN

Jack "Have you joined the AA yet?" Goodman has been persistent in his solicitation of spare cash from the Student Body. This man has survived through four years only because of the non-violence attitude of his fellow classmates.

LEONARD N. GREEN

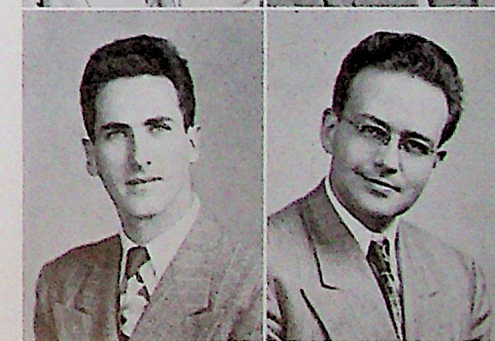
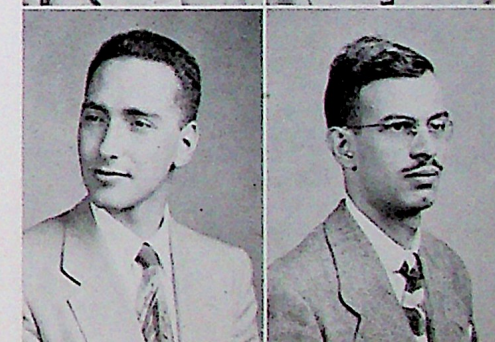
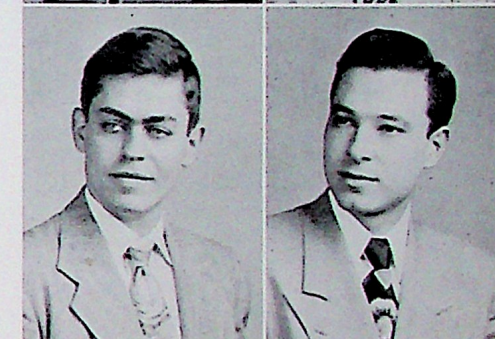
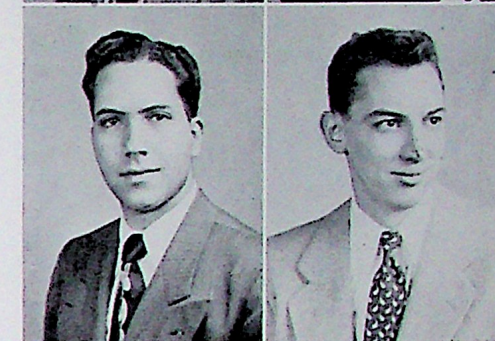
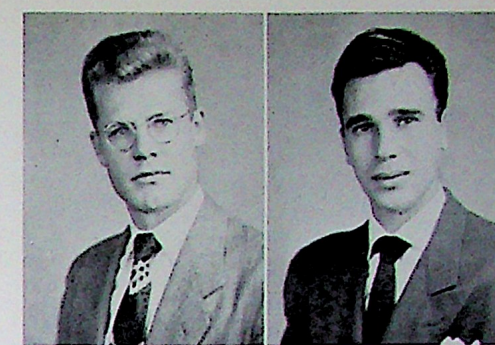
Lennie has managed to catch up on a lot of sleep during Civilization classes by the simple expedient of wearing sunglasses. He intends to work in the Signal Labs at Fort Monmouth (as a civilian he hopes) after graduation.

PHILIP GOODMAN

President of SKT and one of its leading spirits since it was founded, Phil did a great deal of work for the Pioneer, Cable and A.P. Since coming to Cooper, he has gained a wife and a lot of friends. Phil immortalized the motto TGIF. (Thank God it's Friday.)

ADRION GULNICK

This night ME commutes every day from Palisades, New Jersey. Apparently, this still leaves him enough time to obtain good grades in all his subjects.



HOMER R. HANSEN

Homer is another hard worker who turned out fine illustrations. He has left his mark on all who knew him in the Graphic Arts course.

JOSEPH L. HENNESSY

Happiness may be a thing called "Joe," but with Joe, happiness is a thing called sculpture. After graduation, he would like to teach sculpture and carry on with his own work. So far, his work is as outstanding as his red hair.

MARYANNE HAUG

Maryanne was known for her simplicity in Art and dressing, and will always be remembered for her strength of character. She was a member of the World Federalists, and Vice-President of the Humanities Club.

D. JAMES HILL

Jim can hardly wait to go back to Vermont. He intends to build his dream house overlooking Lake Champlain, and to start practicing architecture.

MORTON J. HAUSNER

The spark plug of the athletic activities of the ME sections and scholarly student of Milton Berle, Morty is by far the best audience during any joke session.

JOSEPH W. HORNIK

An accomplished musician, Joe's recitals at Green have served as background music for the volleyball games. He is the only saxophone player who can calculate the stresses in his instrument while playing it.

PAUL B. HEAD

One of the Industrial Designers of the Night Art School, Paul has come up with many new ideas. We expect many more from him.

STANLEY HOTCHNER

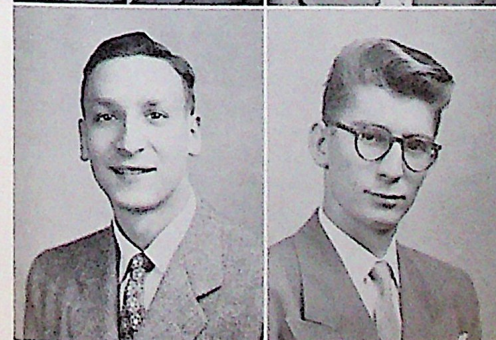
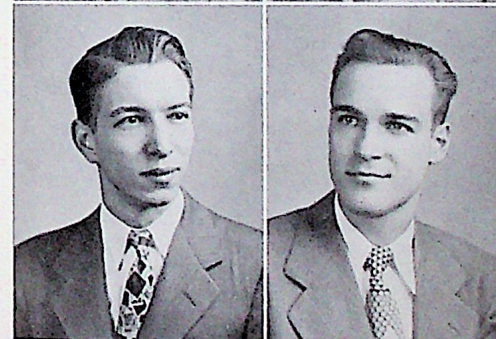
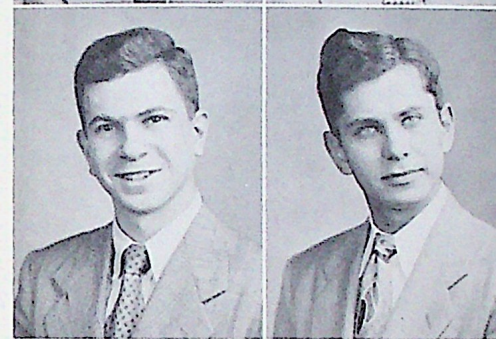
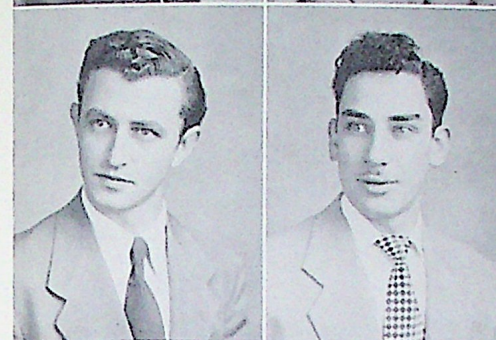
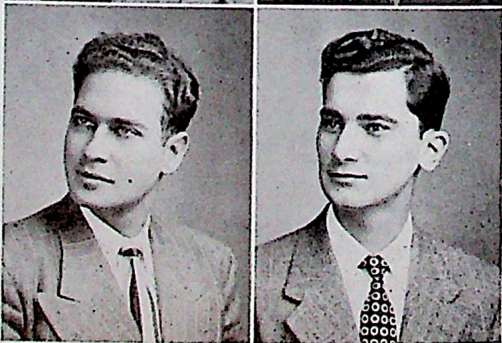
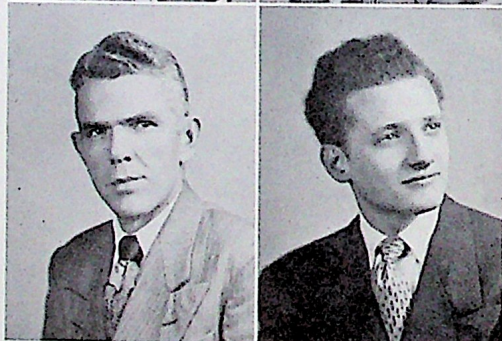
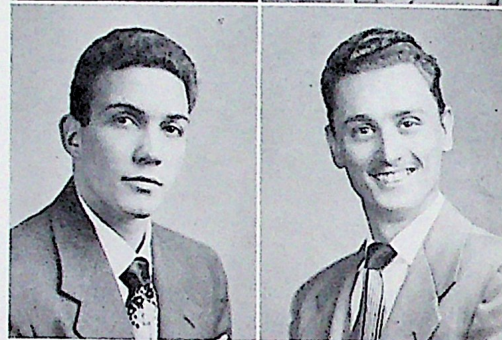
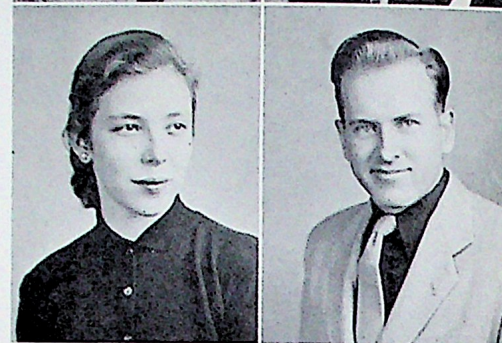
In between school, work, and more school, Stan managed to settle down to a more or less frantic routine of marriage. Although his job, school, and hunting an apartment kept him busy, he managed to produce some fine work in industrial design.

MELVIN G. HEILWEIL

The man most likely to succeed. His proverbial "Will you take it easy!" indicates drive and persistence beyond the ordinary.

RALPH G. IMPERATO

We'll quibble with Ralph if he argues that Day is Night, but there's no argument about the good work he's turned out at Cooper. In between work at the drawing table he finds time to pursue his hobby of photography.



CHESTER L. JABLONSKI

Chester's another Night Architect. We'll always remember him for being friendly and good natured to everyone.

MORTON KARP

In Morton's person, aesthetics and technology are combined in quiet competence. With some design experience behind him, he is now planning on obtaining a degree.

BURT L. JACKSON

Burt's the boy from Connecticut—Cooper's struggling Dutch Master with the bow tie. He was one of the favorites of the Art School in general and of the Fine Arts sections in particular.

S. THEODORE KESSLER

Ted was noted for his dapper nonchalance and spontaneous humor. Besides being secretary and one of the founding members of Alpha Phi Omega, he did considerable work on the Pioneer and Cable. After obtaining his degree, Ted intends to enter the Design field.

MARTIN A. JAFFE

One of the four horsemen of the Industrial Design Team, Marty upheld the honor of Cooper as President of the Fencing Club, and pursued his many design activities at the same time.

HAROLD KLEINMAN

In his years at Cooper, Hal has accumulated a string of extracurricular honors to fill a book. As ruler of LSK, Vice-President of the Rifle Club, and an all around fine fellow, he has made his mark on all who know him.

MICHAEL M. KAHN

Mike is Vice-President of a rubber company in New Jersey, and hopes to do some graduate work in polymer chemistry. His prime outside interests are his charming, intelligent, beautiful children.

RICHARD H. KLIX

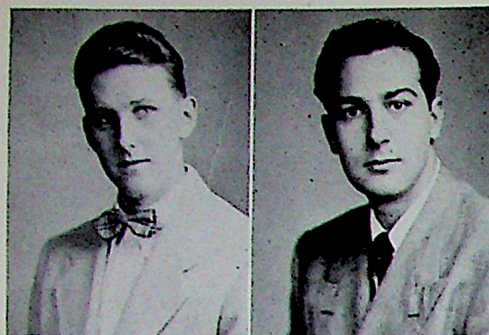
A constant experimenter in fine art and philosophy, he is a sincere and careful thinker. We all wish Dick all the luck in married life, and congratulate him on his King George V beard.

WALTER K. KAHN

"Voltaire Kahn" can usually be seen smoking a pipe that only holds cigarette butts. Feature Editor of the Pioneer and President of the Debating Club, he never bothers to determine which side of the question he's debating.

ALVIN D. KNOLL

A sharp analyst, and quick-witted conversationalist, Alvin has a keen interest in the Arts. He was a member of the service fraternity Alpha Phi Omega.



WALTER L. KOCH

Walt is that unassuming, easy-going guy with the collection of bow ties. His wealth of talent as an Industrial Designer points to a rosy future.

DAVID KUSHNER

One of the original Mooney Hall boys, Dave was President of the Cooper Union Amateur Radio Club. He had the misfortune of having his Draft Board Physical on the same day as his Mech. of Mat. final. According to the latest rumors, he passed both.

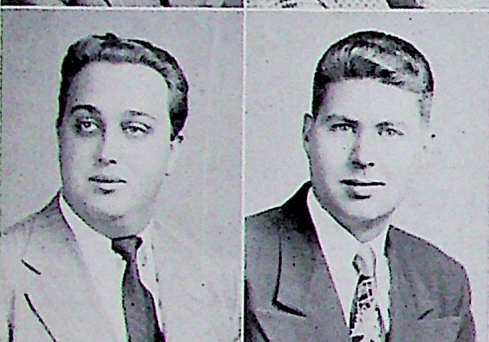


MERRILL KRAKAUER

Merrill was one of the few unmarried night students. His work was made easier by the fact that his brother took the same courses two years before him.

JACK F. KUSTER

Jack very often paints things very close to his heart, such as a portrait of his favorite movie star, or the country scenes he sees so often. His realistic paintings are done with solid forms and bright colors.



LEONARD H. KRAUS

Lennie has the unbelievable ability to sleep through class. The only cure for this malady is wafting a sandwich (any kind) before his nose. The full magnanimity of his personality can be appreciated by the fact that two X-rays were required for his one chest. Among his more esoteric endeavors are Managing Editor of the Cable and the tutoring of a plumber.

LEON J. LASTER

The class conscience, he has worked wonders in keeping the CE class down to a dull roar. Not content with this job, he has been active in the affairs of the ASCE & LSK, as well as stuffing the ballot boxes for the class elections.

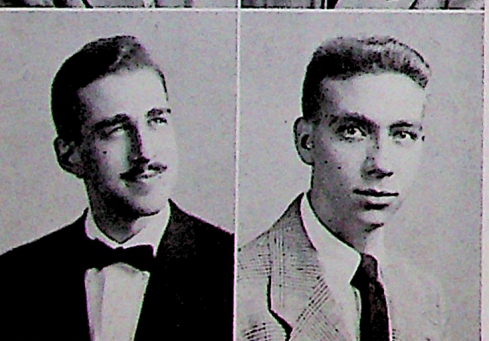


EHOR J. KUCHMAK

Even though he commuted from Hempstead every day, this Night Artist still had time to get good marks in his Graphic Art courses.

GEORGE B. LEAVITT

By George, he's an advertising student with a flair for vocalizing, jalopies, and the girls. We wish him bigger and better Buicks in honor of those memorable Camp trips in the Model A.



MARTIN G. KURZ

'Honest' Marty Kurz has abilities in politics, business administration, and engineering. He has been president of his class, Vice-President of the Debating Society, business manager of the Cable, and has received an A in his Design reports. As if this were not enough, Marty has also made his mark in industry.

STEPHEN I. LERNER

Steve wants to get married, and knowing Felice, we can understand why. One of our best dressed men, Silas Marnar has nothing on him. Steve even weaves his own clothes.

FRED J. LEVINE

When Fred isn't busy upholding the traditions of the Post Office, neither rain nor sleet nor snow can keep him from his easel. At home, he keeps up the tradition of the proud Daddy with his baby girl.

STEPHEN W. MADARAS

Fifty per cent of the Sixth Year CE class, Steve is Treasurer of Chi Epsilon, member of the State Highway Engineers Association, and a Reserve Captain in the Corps of Engineers. His hobby is beating Gus Satir at billiards.

MYRON LEVITSKY

Levitsky . . . Myron, that is, known throughout Cooper as the virtuoso of the violin, accumulated phenomenal marks during his four years and still had the leisure time to continue his various hobbies. Honored by membership in both Pi Tau Sigma and Tau Beta Pi, Myron is also the present Chairman of the ASME.

SHELDON G. MADER

During his waking hours at Cooper, "Shelly" was a member of the ASME and LSK. He also participated in many intramural sports. There were many other hours slept through class, with the respectful appreciation of his classmates.

FRANK LEWICKI

Lewicki . . . Frank that is, is one of the best liked members of the entire ME class. A little more sober than the rest of his classmates, Frank was always ready to lend a rare copy of his homework.

SONIA MARANTZ

A quiet combination of ambition and ability, she's bound to accomplish her goal of being a fine artist.

VICTOR LIGUORI

Vic is one of the few Art School students who have won two Varsity letters. Membership in Design Plus, the Cable, and the Captaincy of the Fencing Team have not kept him from producing top advertising work.

MARILYN MARCUS

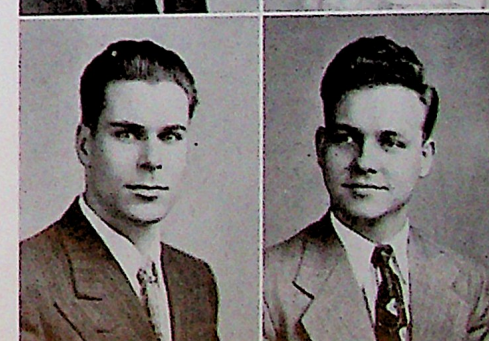
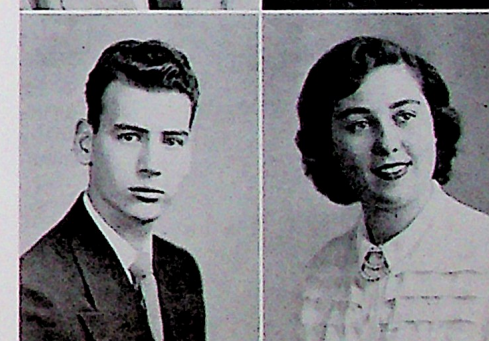
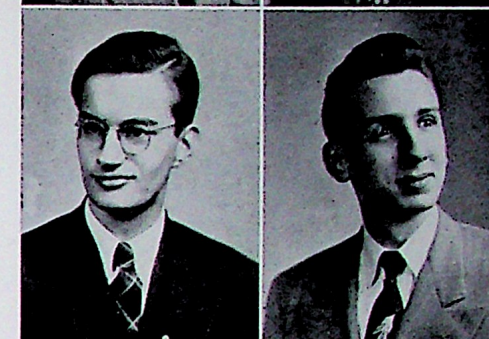
Marilyn spent three years at the Cooper Union making many friends, producing fine art, and being one of the mainstays of extracurricular activities. Her finest and most tedious job was that of Art Editor of the Cable. For all her labors she has earned a Silver C, and the entire school's profound love and thanks.

IRVING J. LOWE

Irv was President, Treasurer, and 20% of the membership of the Math Club. His classmates know him to be a slow talker and fast thinker. He intends to go on to more complicated integrals at graduate school.

ROBERT E. MCCARTHY

Quiet and unassuming, Bob manages the nicest smile and blush when you pay him a compliment. His outside interests include photography, handicrafts, and automobiles. At present, he is working out a system to leave class unnoticed in time to catch the 10:03 to Laurelton.



JEREMIAH J. MCGILL

This Night EE has a bright future ahead of him in the field of electronics. At the moment, he is looking forward to six years of complete relaxation.

VINCENT C. MILONE

One of the newly-marrieds at Cooper, Vince hopes to obtain his own studio after graduation. He loves all kinds of music, and plays the bass fiddle quite well.

JOHN J. McHALE

John is responsible for a large portion of the EE's knowledge of the Facts of Life. His colorful tales of the problems of prospective parenthood have made many a dull class more lively. Treasurer of SKT, he was also star of the Bowling Team.

JOYCE L. MINTZ

A member of the Pioneer and Cable staffs, the Bowling Club, and a holder of the Gold C, Joyce is also prominent in the 'Mr. and Mrs.' society at Cooper. Her unlimited repertoire of jokes will never be forgotten.

ROBERT E. McMULLIN

Bob was active in ODP while at Cooper. He would like a 25 hour day so that he would have enough time to play with his child and still finish his homework.

ELLEN E. MITTAUER

Ellen is our local Esther Williams, and certainly does justice to a bathing suit with her tall, slender figure. If she's not in the pool at the Church of All Nations, you can find her busy at her fashion illustration.

SALLY R. MELNICK

When interviewed, Sally made it quite clear that her only outside interest is her husband. We can't really blame her because he makes up the other half of a really grand couple. Next year, she plans to continue her studies at Brooklyn College.

ANTHONY V. MONTUORI

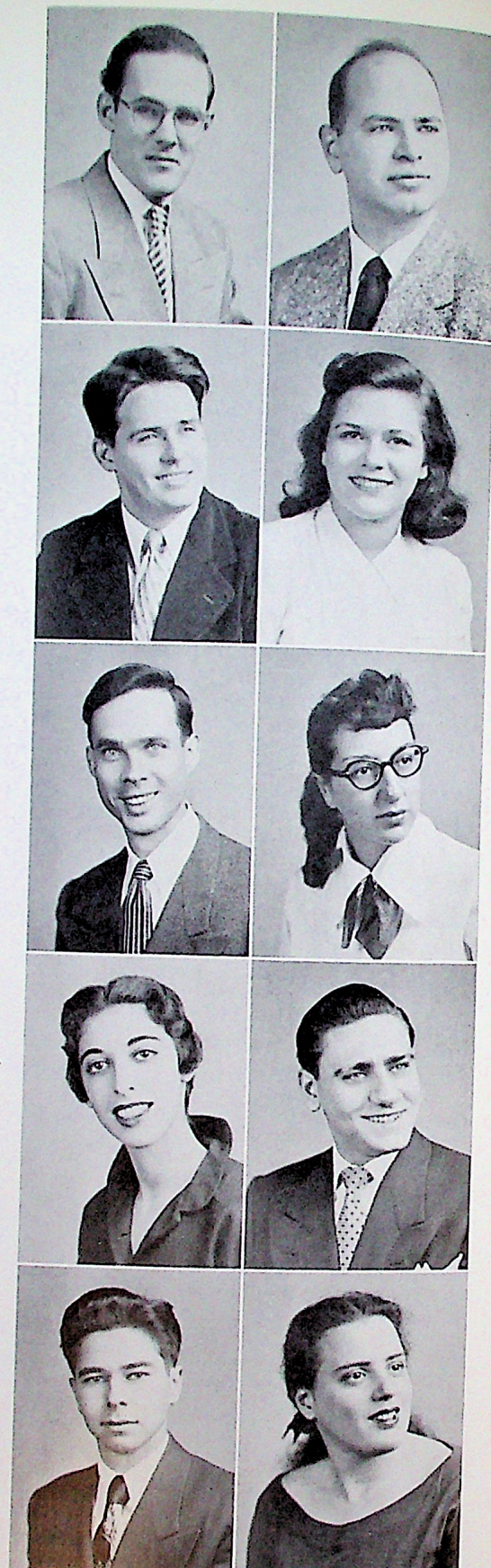
"TV" was manager of the Intramural Volleyball Tournament, and a member of the Radio Club. As a freshman, Tony used to stay up all night studying, but has since realized the futility of it. He now stays up all night, writing lab reports.

MURRAY I. MENKIS

Murray is the only EE who claims to have understood Analytic Mechanics, and who never (well, hardly ever) copies homework. A member of the Chess Club and the IZFA, his interests range from Freud to Laplace.

ANN MORGAN

Sweet, and serene, she is liked by all who know her. A friend in need, she is always ready to lend a hand.



LENORE MOST

According to Lenny, her most important accomplishment in her four years at Cooper was marrying an engineering student. It represents a perfect liaison between the two schools, and she's very much in favor of such unification. Besides managing a house and husband, she keeps herself busy working.

VICTOR OBSATZ

Vic is one of the inhabitants of 35 Cooper Square. A salesman in Macy's Picture Department, he paints seriously and well.

ROBERT H. MULLER

More than any other engineer, Bob is famous for his wooden leg in beer drinking contests. Besides this distinction, he was also a top man on the varsity bowling team and instead of books, he could be seen walking around school with a bowling ball under his arm.

ARNOLD OLSEN

His posters have been enjoyed by all who have seen the voluptuous damsels and various antics which each organization wished portrayed. Arny is a prominent figure in the Fencing Club. "The Rhythm Boy" is a terrific drummer and wonderful dancer.

EDWARD NEIDORF

Ed will be remembered as the man who made the AA Field Day a success this year. As President and one of the founding members of the IRE at Cooper, he was largely responsible for its growth. To round out his personality, Ed joined SKT and TBP.

JOHN E. OXLEY

A Math fiend, Jack is a member of LSK, AIEE, and IRE. His class will always remember Jack's rather one-sided conversations with Professor Nudd.

MORRIS NIRENBERG

One of those conscientious people, Morris worked during the day, and studied Mechanical Engineering here at night in order to obtain his degree. Between his job and his school work, he had little time for anything else.

GERHARDT G. PAHL

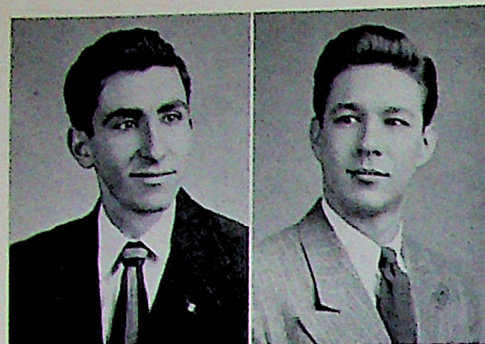
A student in the Industrial Design Class, he shows a preciseness and skill which should make him prominent in the Design Field.

THOMAS A. NOWACK

Tom is an expert tinker. He'll fix anything (so it will never work again). All kidding aside, he's one of the best people to know because no one else has his way of making you laugh at life's darkest hours (when homework is due and you don't have it).

GEORGE PEARLMAN

George intends to obtain a Bachelor's Degree, and eventually a Master's Degree in the field of Architecture. An outdoors man, he likes fishing, hiking, and camping.

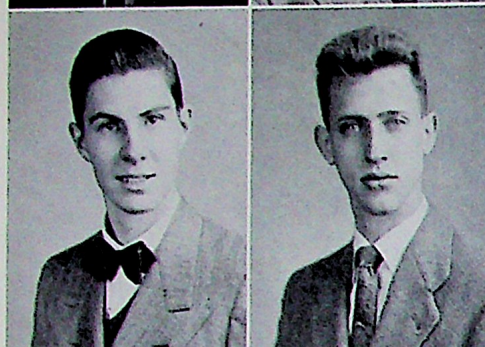


JOHN A. PETRACCA

Johnny has an appealing, quiet attitude. Perhaps his work in a library has taught him to be so still, and to observe, rather than speak. Besides school, weekends with the National Guard, and an amateur playhouse take up most of his time.

JOSEPH J. QUINT

Joe is the perfect bachelor boy—he smokes a pipe and has a cat. However, we won't predict how long he'll remain the prototype of a perfect bachelor.

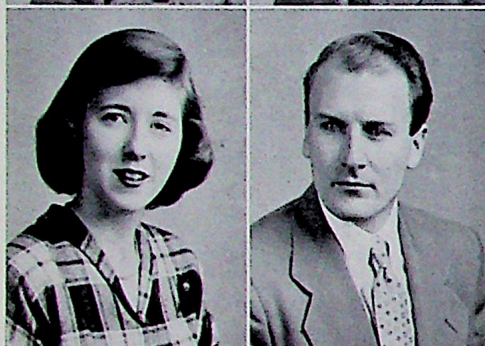


ROBERT J. PILC

Bob is a Camp Green enthusiast, and you can always find him taking part in all the activities up there. Back here in school, he takes his architecture most seriously, and hopes to obtain his degree at Carnegie Tech.

LAWRENCE J. RATZKIN

Tall and slim, Larry is the well-dressed Bohemian. His paintings are wild, but his manners mild. Sculpture is the medium for him, as is evidenced by his work.

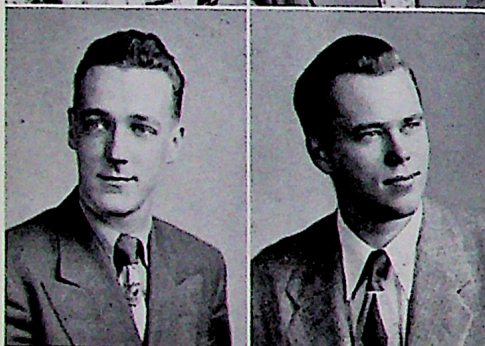


LEILA C. PRESS

A Westchester County gal, Leila holds the Gold and Silver C awards, a Rifle Team letter, and a Bowling Trophy. A member of the Pioneer, and Editor of the Day Art Senior section of the Cable, she will always be remembered as one of the first three girls to grace the A. A. Dinner.

ERWIN RAUSCH

Erwin is in such a hurry to become a Captain of Industry that he's extremely impatient with Cooper (and the Army) for holding him back so long. Yet we are willing to bet that he'll shed a secret tear when he does have to leave.

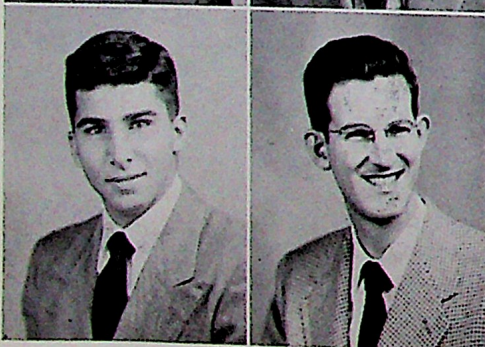


JOHN F. PROCTOR

Soft spoken Sir John is the male Annie Oakley of the Cooper Union. Well liked by his professor, he often goes deer-hunting. Rising above the stigma of his New Jersey citizenship, John has gained the friendship of his classmates. He was the recipient of the Gano Dunn Rifle Trophy.

PETER J. REDMOND

Secretary of Tau Beta Pi and holder of the Calculus medal, Pete is the answer to Professor Starr's prayers. He is equally adept at solving fourth order differential equations, pulling his classmates through Analytic Mechanics and driving various makes of ancient cars.



SANTO PULISE, JR.

This Graphic Arts student looks forward to a future in the Illustration field. A sports fan, he likes to play baseball and football.

JAMES L. REILLY

'Big' Reilly is one man you really have to look up to — if you want to see his head. He's another hard working architecture student.

ARTHUR ROBINSON

Vice-President of Tau Beta Pi, Secretary of Chi Epsilon, and Editor of the Cooper Survey, Arthur is very well acquainted with all matters mathematical. In spite of his association with Semmel, Sackman, and Feldman, he emerges with the high intellectual standards he had as a freshman.

JACK ROSENTHAL

The passionate painter, that was Jack, until he learned to make etchings. One third of a noted trio at school, he is one of the best men in the advertising class.

PATRICIA RONSON

Slim, sophisticated Pat's tastes run toward the waltz and champagne school. She manages to turn out textiles by the dozen and even sells some. Graduation will probably find her in this field.

REYNOLD D. RUFFINS

A great favorite of the Art School, Reynold was Second Year Class President, member of the Cable Staff, and a cornerstone of Design Plus.

HARRY ROSENBERG

Statesman (he's on the Governing Board of the AA), Writer (he writes for the Cable and Pioneer), Soldier (he's a Corporal in the National Guard), Harry has upheld the highest traditions of the EE Department by always finishing his lab reports during the lunch-hour before they were due.

HENRY RYFFEL

Henry is a lad who spent his evenings here studying Mechanical Engineering. He can even explain Entropy.

MYRON S. ROSENBERG

Myron is one of the most diligent night ME's. The long grind has not taken away any of his good humor.

JEROME SACKMAN

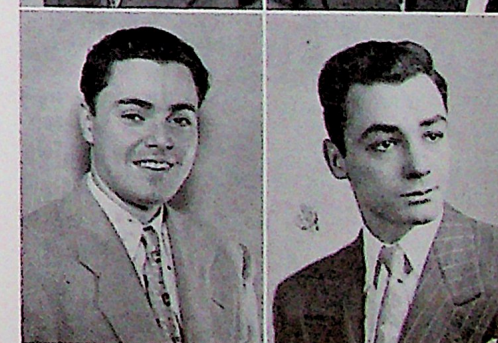
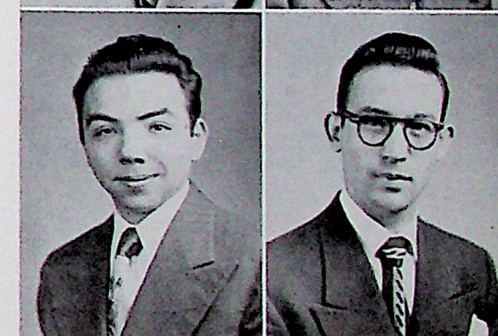
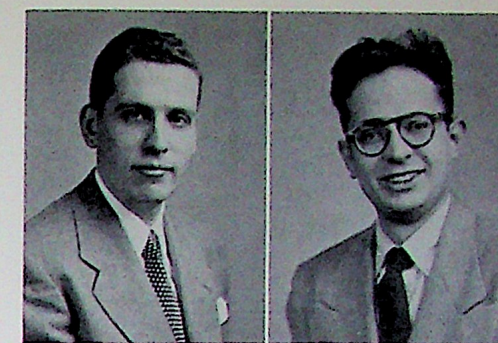
The bright boy of the CE class, and President of Chi Epsilon, his homework has been an inspiration and a model for us all. No drudge, Jerome's interests are varied, and he is never one to shy away from a pretty girl.

IRWIN ROSENBLUM

Irwin is the class encyclopedia of technical information. A versatile and reliable veteran, he has a varied background and interests.

ROBERT L. SACKSTEIN

Bob is interested in furthering his studies in painting after he completes his graphic courses in Cooper. Besides being a member of the Folk-Song Group, Pioneer, and the Y. P. A., he is noted for his yen for debating.



CONSTANTINE J. SATIR

Vice-President of Chi Epsilon, and graduate of Pratt Institute, Gus comprises half the sixth year CE class. He is always available for a trip to the nearest tavern for a brew or two. His ambition is to beat Steve Madaras at billiards.

EDWARD SCHWARTZ

Ed's homey philosophy and wry wit have endeared him to his class. It will always be remembered that when Zippotone went on the priority list, Ed switched to colored inks. A great day for Higgins!

ALFRED R. SCARPERI

Married, and the father of two children, Fred has managed a career along with his schoolwork. While studying architecture at Cooper, he has operated a hotel and restaurant at Milbrook, N. Y.

HIRSCHEL SCHWARTZ

The unofficial prosecutor for the EE's, Hirschel can sense the weak spot in any instructor's armor. A member of the Radio Club, Debating Society, Dramatic Club, and the IRE, Hirschel intends to move to the West Coast with his wife after graduation.

ALFRED SCHNEIDER

A member of Tau Beta Pi, the AICHE, and the American Chemical Society, Al has written several scientific and technical publications. The future holds great promises for him in the field of thermodynamics, physical chemistry, and theoretical physics. For relaxation, he likes to read poetry in six languages.

CARMEN D. SEGUINOT

Carmen is the Architecture Class' quiet and very charming secretary. In her, conscientious efficiency is coupled to a scintillating personality.

PAUL B. SCHUBERT

After six years of practice, Paul can read a slide rule to five significant figures. Oddly enough, they're usually correct.

HAROLD SEMMEL

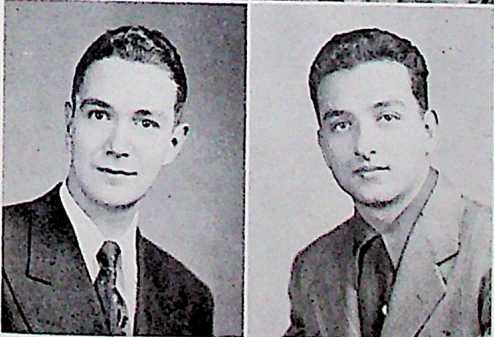
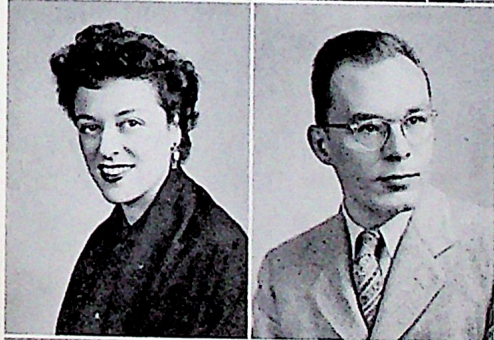
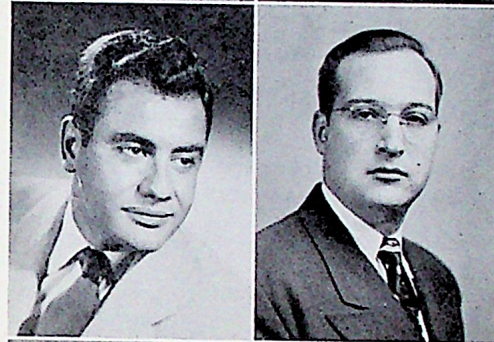
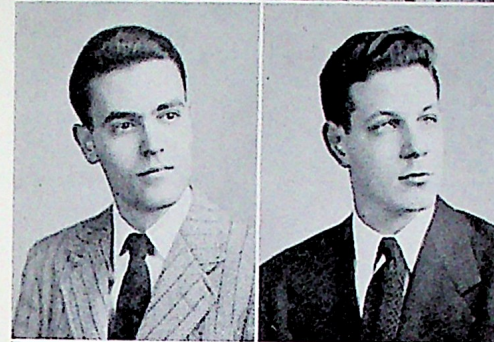
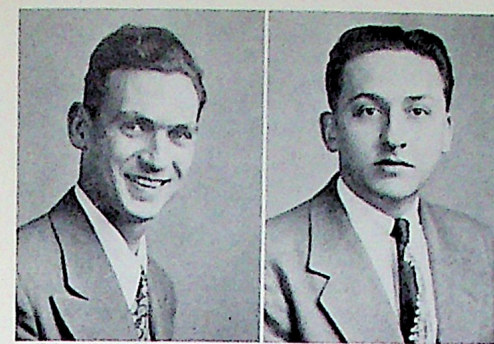
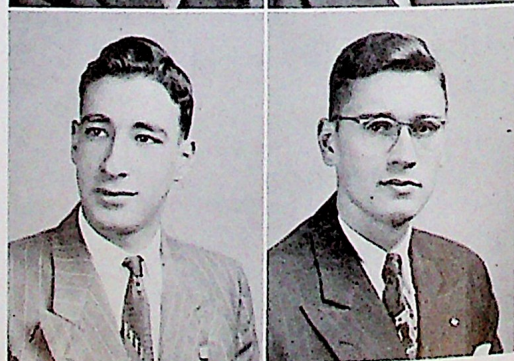
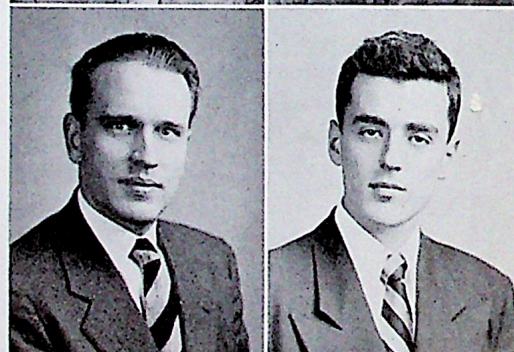
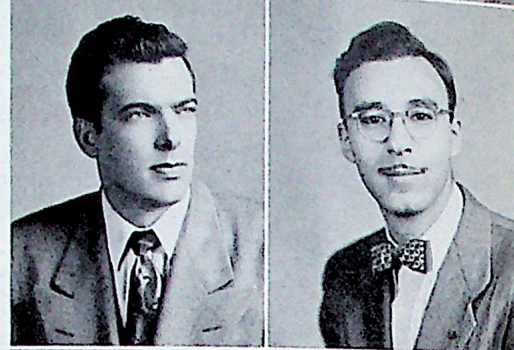
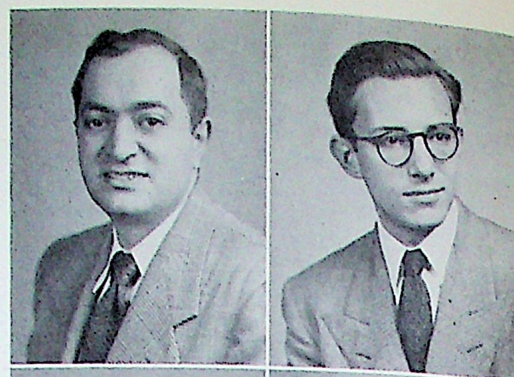
Life in the CE department would have been mighty dull without Hal. The wheel of the AP organization, the caretaker of Feldman and Sackman, and an ardent admirer of the better things in the female sex, Hal's slow torture and eventual murder of the King's English have made a significant contribution to Cooper tradition.

DANIEL SCHWARTZ

Unassuming Danny has always taken an interest in his studies. He is a firm believer in research and the power of thorough investigation. Secretary of AMS, he has earned honors in intramural softball, handball, and volleyball.

HAROLD E. SERENBETZ

Harold is the one man who knows the pulse of the student body (and the blood pressure too). Quiet, and well-liked he works hard and does well. Because of some secret connection with the telephone company, he has a fine collection of their stationery.

**NORMAN SHAPIRO**

Leader of the intellectual set at Cooper, Norman has had the honor of winning the Gold and Silver C's. Some of the best material ever to appear in the Pioneer and Cable, as well as many sensitive paintings were created at Norman's studio across the street from Cooper.

MURRAY SILVERMAN

One of the SKT boys, Murray was also active on the Varsity Bowling Team, and the AIEE. As a Petty Officer in the Naval Reserve, he was the only one in the class who had to salute his Electronics instructor when handing in lab reports.

JOHN V. SHEORIS

John is one of the Architecture class's top men. An excellent draftsman, render and designer, he intends to go to Yale after graduation. Classmates predict a brilliant career in architecture.

DONALD SIMONS

The boy with the winter tan, he represents one half of the successful Simon and Bruder team. Don has not only flourished in the commercial field but has also had the honor of having a painting hung in the Art School office.

MARVIN SIEGEL

Marv has an astounding genius in getting people (both students and instructors) to work for him. His chief claim to fame will be the fact that he was Editor-in-Chief of the Cable, News Editor of the Pioneer, Editor of the AA News, and fourth smartest member of the CE class. He had the distinction of winning both the Gold and Silver C.

CALVIN J. SINGER

Cal is one of the Night E.E.'s to be elected to Tau Beta Pi. He is married, and has one child.

AUDREY SILBEY

Audrey has earned the admiration of the class by her beautiful and chic manner of dressing. The wolf calls always abounded on the sixth floor whenever she made her appearance.

WALTER C. SKALECKI

Having completed four years in the Night Art School, he hopes to make his mark in the Fine Arts field.

MICHAEL SILVERBERG

Through his zealous campaigning, Mike won the hotly contested election for secretary of the AA. The owner of a Gold C and Tau Beta Pi Key, his literary works could be seen in the Cable, Pioneer, and the AA News. "Three-Headed Mike" intends to continue his studies at graduate school.

ROBERT SLUTZKY

Our painter of renown, we expect to see his one man show at the Modern within the next five years. He's the one of whom we'll say, "He was in my class at Cooper."



EUGENE R. SMITH

"Smithy", as he was called by some was a member of the Weight Lifting Club, Camera Club, and the Cooper Union Band. An ex-Paratrooper, he made his TV debut with "Dixieland Combo."

IRVING A. SPEELMAN

An excellent artist, as well as a fine engineer, Irv has amassed a number of prizes during his stay at Cooper. Besides winning the prize for having the best record in the 5th Year ChE class, he has won second prize in Physics in his second year.

ALVIN SOFFLER

This mechanical engineer, known far and wide as "Al, the Plumber" is famous for heading ASME dinner committees. There's many an epicurean who has thanked him for a swell meal. A Pi Tau Sigma man, Al has some industrial experience, and expects to burn up the business world.

ROBERT SPIES

Between his local draft board and his girl, Bob has had a rather hectic Senior year. This, in addition to being President of the Humanities Club, Vice-President of Pi Tau Sigma, Assistant Editor of Cable, to say nothing of his membership in Tau Beta Pi has shown Bob to be one of the real leaders of student activities.

IRVING SOLOV

Irving has been an evening scholar for the past 10 1/2 years, of which the last eight were spent at Cooper Union. He has been studying so long that he feels like a fixture of the school. However, he now knows that he's not a permanent one.

SONDRA STEIN

Sandie's quiet manner has earned her the nickname 'Angel', which she sorely resents. A real child of nature, her woven fabrics and textiles have a rare freedom and feeling for color and material.

JOSEPH J. SORRENTINO

One of the unmarried men in the Night School, Joe has had the honor of being selected to Tau Beta Pi. He was also Treasurer of the Night School Chapter of the AIEE.

ANNE SUESS

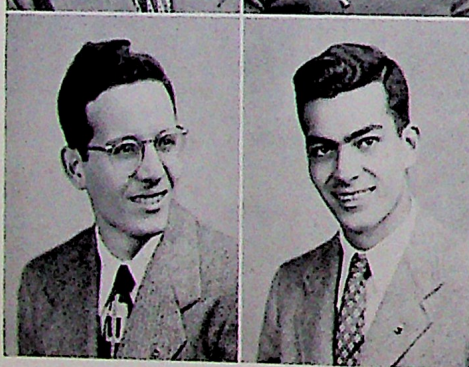
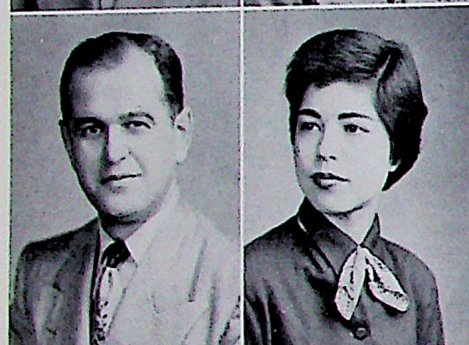
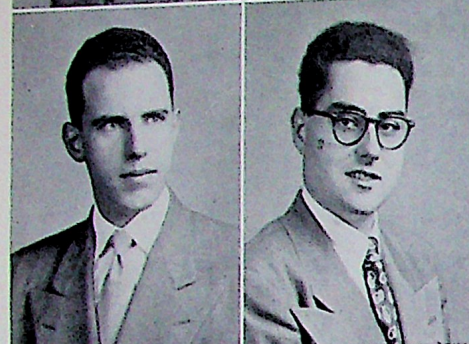
Ann is the girl typographer incarnate. (Being married to a printer may have something to do with it.) If furnishing her apartment and learning to cook doesn't get her down, she'll head straight for the book field.

LEO SOUZIS

"Accident Prone" Souzis has an amazing faculty for throwing the ball where no one can find it. The only student who has been refused by Lloyd's of London, Leo's extracurricular activities consist of breaking glass—including his own spectacles. He is also a member of the AIChE.

WILLIAM J. SULLIVAN

Although he is Treasurer of Tau Beta Pi, Bill still has a great many friends in Cooper. Besides being an excellent student, he is the great short-stop of the AIChE softball teams, and displays great talents as a lunch-time pitcher.



LOIS C. SWIRNOFF

Chic and sophisticated, Lois has managed to charm the entire school. Member of the Cable, Pioneer, and the A.A. staff, she is noted for her beauty, wit, and intellectual attainments.

MARTHA WEISBERG

Martha cannot quite decide whether her second love is sculpture or her new apartment in Greenwich Village. She's sure though, that her first love is her husband, a wheel in the advertising profession.

CLIFFORD L. TEMES

President of the Student Council and of the Senior Class, Cliff has been largely responsible for reviving Student Activities at Cooper. His lanky frame could be seen at such varied activities as the Cable, Pioneer, Debating Team, and AMS. Cliff's ambition is to amass a fortune in Hudson Tube tokens.

GUSTAVE J. WEISS

"Gottabutt" Weiss was elected President of the AIChE while raising his hand to scratch his head. In this capacity, he has earned the respect and admiration of his fellow students for his ability to absorb verbal punishment. Gus has recently been elected to Tau Beta Pi.

MARCIA TOPOREK

Good things don't always come in small packages—Marcia's paintings are big and lustful and show her keen sense of color. Her fabulous cooking at Green Camp will never be forgotten.

HARRY N. WENKE

Four years of Cooper have not taken away any of his good humour. Quiet, unassuming, and efficient, he is regarded by his classmates as the only really civil Civil Engineer. Harry has been quite active in ASCE affairs.

MARIE D. L. VERLENGER

One of the New Jersey commuters to Cooper Union, Marie finds time to hold down her job as a trimming buyer for a dress firm, and attend classes here. Her textile classes are her first love, and Camp Green is a close second.

ALFRED WERTHEIMER

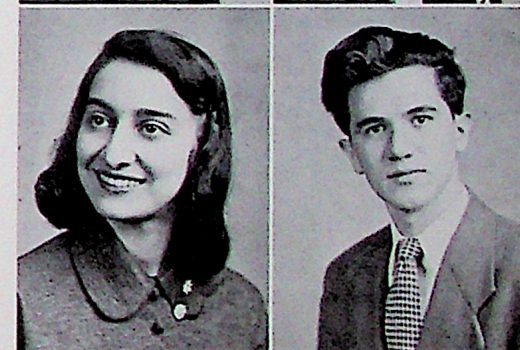
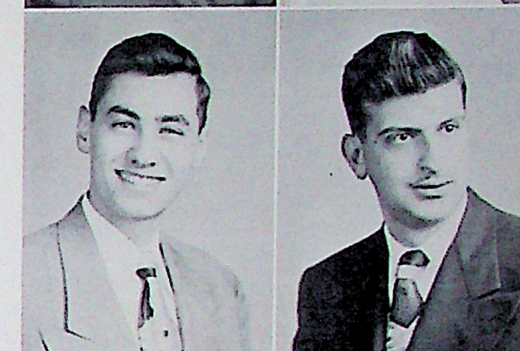
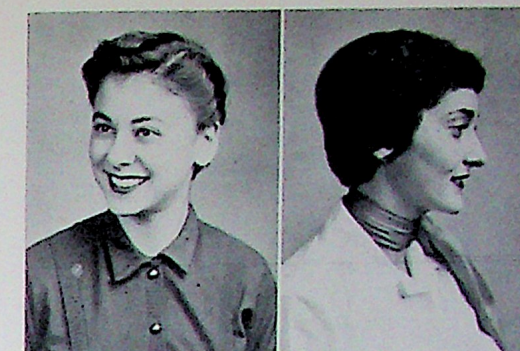
His heart is in photography, his soul is with the World Federalists, his mind is on commercial art, and his feet are on a soap box. Al will always be remembered for his love for an argument, anywhere, anyhow, anytime.

DAVID WASSERMAN

Dave is an 'alumnus' of various German and Russian concentration camps. Now happily married and the father of three lovely children, he is presently engaged in the electrical construction field.

JULIAN M. WIENER

One of the handsomest men in the graduating class, Julie spent six years at Cooper before he finally emerged with a degree in Mechanical Engineering.



JOSEPH WILKER

Ambitious and dependable, Joe is an authority on all things mechanical. Known for his capacity for serious thought, he has a bright future ahead of him in the field of Mechanical Engineering.

GEORGE E. WRAGE

Through his keen interest in the Yacht and Rifle Teams, George has won the 1950 Player of the Year Award, and the Vice-Presidency of the A. A. One of the original builders of the Rifle Team Log Cabin, he has organized many of the team's trips to Green Camp.

CLARENCE WILLIS

Clarence was elected to Pi Tau Sigma in his fifth year. The present chairman of PTS, he was awarded Marks Handbook as that initiate from the Night School who best fulfilled the membership requirements.

CHRISTIAN S. YOUNG

His concise way of writing, talking, and thinking have earned Chris the admiration of students and instructors alike. Besides working as a draftsman for the U. N. Building, Chris was Literary Editor of the 1949 Cable and is a member of Ex Post Facto. He is said to be an authority on road conditions between Manhattan and Hempstead.

BERNARD WILNER

Raconteur, class wit, engineer par excellence, B. W. is a man of distinction. This Voltaire of the Bowery was a member of Pi Tau Sigma, the Humanities Club, and various other activities. He "Bali-Hi'ed" his way through many a drawing session.

MARTIN ZANICKOWSKY

A firm believer in the fact that things are cheaper by the half-dozen, Martin is the father of six children. A member of the IRE, he is presently engaged in microwave research with the Sperry Gyroscope Company.

HARRY WOLFF

A good student and one who is well versed in the practical side of engineering, Harry has the kind of personality that made him well liked by all.

ELAINE ZELVIN

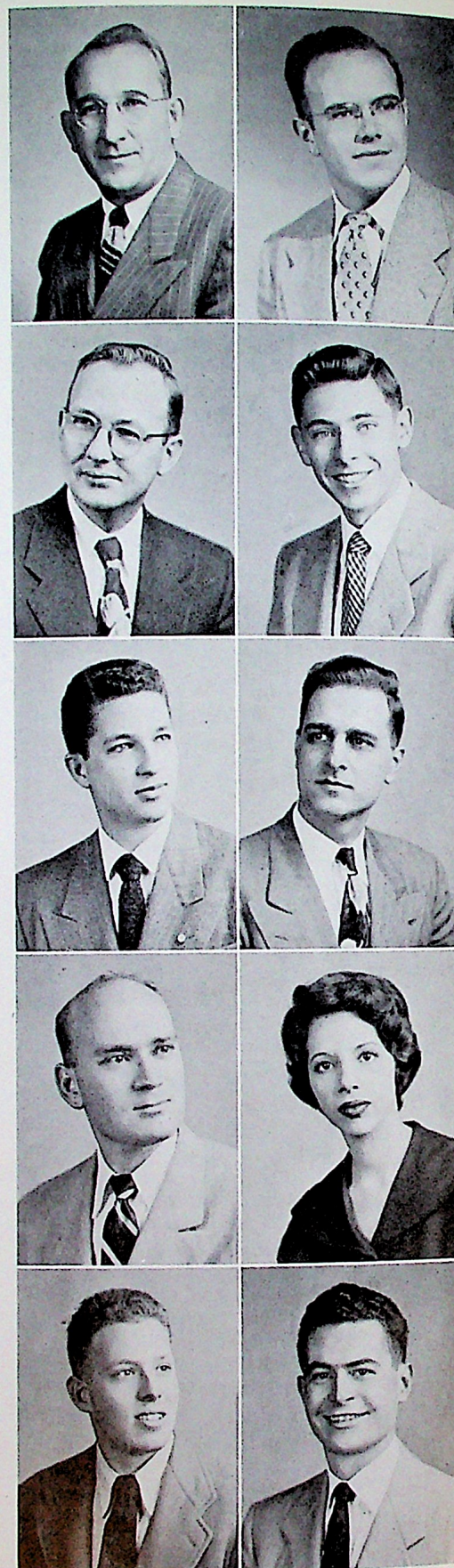
Tall, dignified Elaine is the envy of the female members of the Art School with her willowy figure and clothes to match . . . An incurable balletomaniac, she also has quite a bit of writing to her credit.

HOWARD H. WOLNER

Howie will always be remembered for his youthful effervescence. A searching thinker and scrupulous draftsman, he intends to open an Architectural practice with his wife after he obtains his degree.

MEYER L. ZONIS

No study of Western Civilization would be complete without the evaluation of the contributions of that seminal thinker, Meyer L. Zonis. Raconteur without equal, thespian without peer, boy engineer, Mike is the living embodiment of the No-Strain Theory of Engineering Education. (Three assassination attempts by the ECPD have failed.) He is well liked by his mother.



ARA DERDERIAN

No one in the Fine Arts class will ever forget the day Ara arrived in English with his chest bared to the Norse wind. Don't let the haircut and goatee fool you—he's really one of our top artists.

IRA GRAY BOFF

Ira is the most famous of the Senior Day Artists. As staff artist for "Architectural Forum" he designed the covers for the August and October 1950 issues. After returning from the Navy in 1945 he dabbled in Graphic Arts for a while before transferring to Architecture.

CAMERA SHY

ALBERT ANAYA
ALFRED T. BENTON
FRED BOHM
MARY BONFIGLIO
THOMAS J. BRENNAN
JENS O. BRONDELSBO
FRANK J. BRUSCASCO
THOMAS BUDAY
ROY A. COOKE
REBECCA COOPERMAN
JAMES CORRADO
JOSEPH EISENSTADT
WILLIAM GENNARO
ANN M. HARTTER
JOSEPH HUPALOWSKY
LIONEL KALISH
JOHN T. KILMARTIN
HERMAN LANDAU
MICHAEL LEDDY
JOSEPH S. LEWIN
NATHAN NADLER
EUGENE NEWMAN
ANNAMAY OLSEN
RAYMOND ROCKLIN
KURT ROSENBAUM
ELI L. SCHWARTZ
CHARLES L. TAUSS
J. FOREST VEY
ADRIENNE WERANY

NOBLE MAROON AND GOLD

In praise of Alma Mater,
Loyal we hail thy name.
Raising our grateful voices
Proud of thy glorious fame.
Hail dear old Cooper Union,
Memories of thee we shall hold
Gratefully we salute thee,
Noble Maroon and Gold.

For all thy priceless treasures,
Years that we'll ne'er forget,
Friendships we'll long remember,
Pleasures we oft have met.
Hail dear old Cooper Union,
Praises of thee we unfold
Faithfully we salute thee
Noble Maroon and Gold.

COOPER UNION ACTIVITIES

SILVER C

Bass, Donald
Bayman, Benjamin
Cohen, Eleanore
Demaras, Alex
Dornblum, Pearl
Feldman, Norman
Feuerlicht, Herbert
Gordon, William
Heidengren, John
Hornik, Joseph
Kahn, Walter
Kirr, Fred
Kleinman, Harold
Kurz, Martin
Levitsky, Myron
Lobell, Rita
Marcus, Marilyn
Muller, Robert
Neidorf, Edward
Olsen, Arnold
Press, Leila
Rosenberg, Harry
Sammel, Harold
Siegel, Marvin
Silverberg, Michael
Spies, Robert
Traite, Max
Wrage, George

GOLD C

Alperstein, Joan
Aronoff, Sheldon
Azerrad, Joel
Block, Lazerus
Buchler, Rhoda
Dornheim, Frederick
Ebenfield, Herbert
Evers, William
Gavor, Dorothy
Graven, Richard
Griner, Norman
Grunfeld, Dorothy
Haughwout, Allen
Heiberg, Jeanne
Jaffe, Martin
Kahn, Herbert
Kalish, Israel
Kociuba, Thomas
Kreshin, Lawrence
Laster, Leon
Ligouri, Victor
Lynch, Maurice
Marks, Gerald
Moskewicus, John
Ohlmann, Robert
Proctor, John
Redmond, Peter
Robinson, Arthur
Rosen, Walter
Rubin, Israel
Schwartz, Hirschel
Spector, Murray
Strasman, Paul
Tishkewitz, George
Waldman, Richard
Wilner, Bernard
Zschaler, William
Zwiebel, Imre

They are the monarchs of the "C"
Dispensing credits lavishly
To all who rightfully merit grants
And also to their sisters and their cousins and their aunts . . .

My bosom swells with pride
This honor not denied.
In their records my name they plant
As do their sisters and their cousins and their aunts . . .

When I came here in my first term
I so was bitten by the learning germ
I rushed from the school when my class was o'er
And enhanced my reputation as an awful bore.

I escaped my books so infrequently
That I never even heard of the words "Gold C."

The life I led was then so bleak
That outside diversions I was forced to seek.
I joined some clubs and played on teams
And I learned what the word Camaraderie means

This sort of life so well suited me
That soon I was the owner of a bright "Gold C."

Now students all, whoever you may be,
If you want to raise to the top of the tree,
Be careful to be guided by this golden rule:
Venture from your desks; let your books go free
And soon you'll be the owner of a bright "Gold C."

THE STUDENT COUNCIL



At the start of the school year, the new-born STUDENT COUNCIL of 1950-51 received from last year's Council a pat on the lower posterior region and opened its fluttering eyelids to find itself confronted with no Pioneer, no Activities Plan, and no Cable.

Before this babe could hope to accomplish anything, it was evident that it had to possess a sound head, neck, right hand, and pocket, commonly called president, vice-president, secretary and treasurer. These appeared in the persons of Clifford Temes, Bernard Novack, Pearl Dornblum, and Paul Strasman, respectively. The remainder of the carcass consisted of the representatives of the Day and Night schools of Art and Engineering.

Student bureaucrats were sought and appointed to take charge of the Pioneer, A.P., Cable and the various committees of Council. Slowly the activities were built up and began to function smoothly, as dissenters were exiled to C.C.N.Y.

By holding regular meetings weekly and posting agenda and minutes on a reserved section of the propaganda board, the Student Council exerted a stabilizing influence upon the extra-curricular machine. Class organization and meetings were encouraged by agents of the Council to consolidate the school from within the class groups.

Under the able chairmanship of Fred Freyer, a centralized publicity committee was organized which served to concentrate under one efficient committee the poster advertising of all school organizations. Aside from the fact that the artists sometimes got confused and may have drawn a debater shooting a ping-pong ball out of a rifle down a bowling alley from a yacht, the committee was very successful and eliminated much duplication of effort that previously existed.

On Feb. 10, the big social event of the year was held. The Annual Dance Committee under Joe Hornik's supervision, did a splendid job of insuring a boisterous affair at the Carnival Room of the Hotel Capitol.



THE 1951 CABLE

"Blessed are ye, when men shall hate you . . ."—Luke, VI, 22

Taking the above as his motto, Marvin (Little Caesar) Siegel has lived in a manner designed to make him blessed above all.* This characteristic has eminently qualified him for the position of editor-in-chief of CABLE.

Finding others of a like ilk proved to be no easy matter, and so Little Caesar was forced to seek among the ranks of human beings for a staff. From the stench of the fifth floor emerged Martin Kurz, business manager and "goniff" extraordinary; from the grease cup of a Ford engine came Robert Spies, associate editor and doer of dirty work; from the catacombs of the sixth and seventh floors came Marilyn Marcus, art editor and moralist; from the magnetic field of a dynamo came Max Traite, literary editor and composer of vile epithets. From all sides they came, and they congregated about Caesar, clamoring for a battle plan.

Weighing all schemes, it was decided that the best was to attempt to sell THE CABLE. And so the student body was approached. Subscriptions were obtained by cajoling, exhortations, pleas, and threats. The quota was somehow reached by appeals to students, alumni, and God. The latter declined a subscription, but offered moral support anyway.

Each of the editors proceeded to gather around him a group of friends who wanted Gold C credit, and so the CABLE staff was born. Fred Kirr was persuaded to move his camera from the men's room to other parts of the building, and even on occasion to athletic and social events. Herb Ebenfield sold advertising space to local stores, alumni, and relatives, and some of the literary staff were even convinced that they ought to write so that the literary editor might have something other than his own work to edit.

Surprisingly enough, and for the first time in the history of THE CABLE, the production schedule was adhered to, and the yearbook came out before the graduates were alumni. This was extremely fortunate, as in previous years alumni have been known to call and demand when their ten-years-out-of-date CABLE was going to be delivered.

Assuming that someone other than relatives of the staff is interested, names of members of the staff follow.

* This was published under duress. My permission was obtained only when I was threatened with the resignation of my entire staff—Ed.



Literary Staff: Rhoda Buchler, Gerry Ehrenstein, Walter Kahn, Israel Kalish, Rita Lobell, Joyce Mintz, Murray Melnick, Edward Neidorf, Arthur Robinson, Michael Silverberg, Lois Swirnoff, Richard Waldman, Gerhard Walter, Ted Watkin.

Art Staff: Joel Azzerad, Hamid Bacchus, Harold Bruder, Seymour Chwast, Joseph Delvalle, Sue Foster, Milton Glaser, Sidney Gomberg, Victor Liguori, Patricia Ronson, Richard Schiff, Donald Simons, Sondra Stein, Marcia Toporek, Burt Jackson.

Senior Staff: Pearl Dornblum, Fred Freyer, Ted Kessler, John McHale, Leila Press, Harold Semmel, Meyer Zonis.

Photography Staff: Leonard Berkowitz, Larry Block, Ralph Caro, Jackie Ecklund, George Gardner, Thomas Hanrahan, Michael Lafortezza, Walter Oettinger, Alfred Wertheimer.

Business Staff: Norman Becker, Jacob Kluger, Israel Rubin, Murray Spector, Imre Zwiebel.

Editor-in-Chief
Marvin Siegel

Business Manager
Martin Kurz

Assistant Editor
Robert Spies

Art Editor
Marilyn Marcus

Literary Editor
Max Traite

Photography Editor
Fred Kirr

Co-Senior Editors
Harry Rosenberg
Myron Levitsky

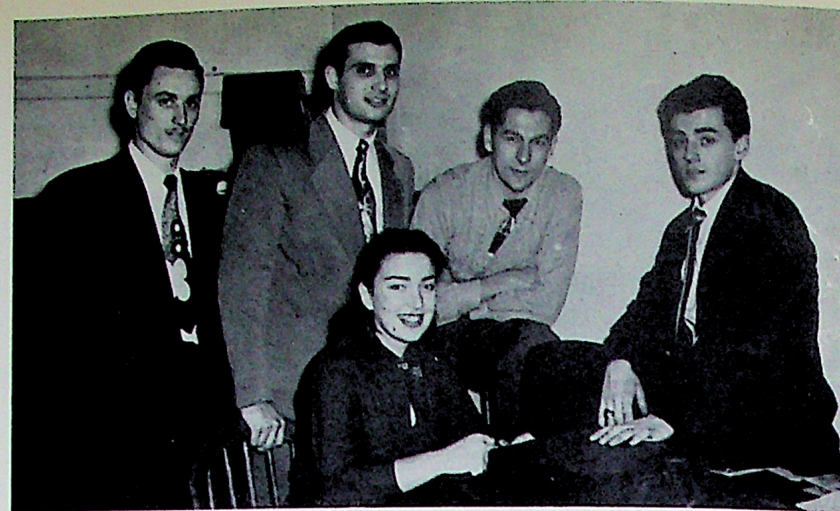
Production Manager
Bernard Wilner

Advertising Manager
Herbert Ebenfield

Associates
Eleanor Cohen
Norman Shapiro

Co-Managing Editors
Leonard Kraus
Benjamin Bayman

ACTIVITIES PLAN



The ACTIVITIES PLAN this year, under the inspired leadership of Hal Semmel and Joan Alperstein, rose to new and more glorious heights of achievement. The duo was seen riding together in an ascending elevator.

The first project was a Hallowe'en dance, complete with barrels of apples, cider, wild decorations, sawdust, and a lady hog caller posing as a square dance caller. The public address system was fortunately put out of commission shortly before the dance, when someone plugged the A.C. amplifier into a D.C. socket.

On December 22, just before recessing for Christmas, a party was held in the lobby of the Hewitt building with the reconditioned amplifier, food, drink, red, green, and tinsel decorations, and sundry members of the staff and student body.

Several movies were shown during the year, most notable of which were *"The Cure," "My Little Chickadee,"* and *"Meet John Doe."* Dance instruction in the Art School lounge was sponsored by A.P. and given by Billy Cigal during lunch hours in an attempt to induce as many as possible to the Annual Dance. A few class parties were promoted, each of which turned out to be a "corking" success, and contact was made with house plan groups at other colleges, leading eventually to the establishment of the Date Bureau.

There was a continuation of the policy of securing discount tickets to the City Center, Metropolitan Opera House, and several of the local movies. The saving to students is well known by those who availed themselves of the opportunity to secure reduced rates.



THE PIONEER



Last September a newly reorganized Pioneer appeared with hopes, ideas, ambitions, and ideals. It had everything except subscribers. As a result of this deficiency, the paper went into an extended period of hibernation, which lasted until the middle of December. At that time, hounded by the few who did subscribe, the editors faced a situation where the Pioneer had to be published or money refunded. It was decided by a newly re-reorganized miserly staff to publish. Risking the effect on subscribers of finally receiving their second issue, the editors decided to go whole hog, and number three was distributed in mid-December.

During the Christmas recess, the editors of the Pioneer enrolled in the class of a transplanted Yogi and learned one of the mysteries of the East, "How to publish a newspaper without money." The results of this instruction put the paper on a sound financial basis and it continued to be published throughout the spring session.

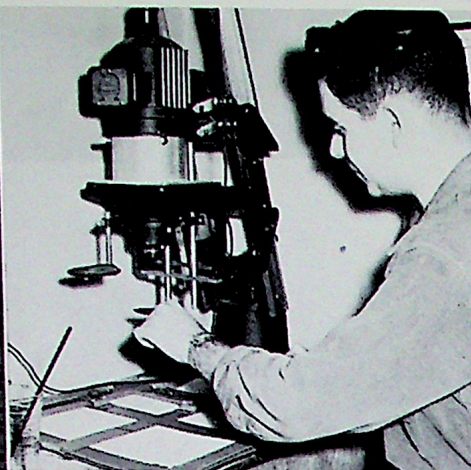
Due to an intensive economy drive, not only did the staff of the paper do all its own varityping, but squads of ambitious freshmen were recruited to chew wood shavings in an attempt to increase the Pioneer's paper supply. Unfortunately, no one has yet enrolled at Cooper whose blood color is black, and since using natural blood for ink would be politically inexpedient at this time, the editors are searching for a member of the "four hundred" to facilitate the publication of a blue issue.

In an effort to gain new subscribers and to keep the old ones from stoning them, the editors of the Pioneer again demonstrated the wonders that could be accomplished without money by having a Student Register published and distributed to subscribers. It then became unnecessary for students to consult the telephone directory in order to properly address poison pen letters.

The issuance of the Register evoked great enthusiasm, but unfortunately not too many new subscriptions. The editors are planning a return trip to their Yogi this summer for a post graduate course on "How to run a paper without readers."



COOPER CLUBS



"Cast off your worries, fling cares to the skies and bawl . . . er, bowl" is the motto of the BOWLING CLUB. Led by Bill Evers, Bob Muller, George Wickstrom and Leila Press, the organization had a full program. In addition to the regular Friday night meets and classes for beginners the club sponsored a February Pin-Picking contest which was open to all. The Freshman Bowling Tournament in March was preceded by a professional exhibition. This year, a camp trip under the guidance of Dick Waldman proved extremely popular.

The Cooper CAMERA CLUB awoke once more from a sound sleep and scheduled frequent meetings, especially during the beginning of the year. The fact that attendance at meetings is a function of time such that the attendance approaches zero asymptotically as it approaches final exam time, was again verified. Hopes to have a better darkroom put at the disposal of the club look dimmer at this writing, but the club is projecting its hopes toward a bright future and a developed membership.

THE CHESS CLUB, under the leadership of Ralph Cooper, attempts to teach young aspirants to the game how to avoid getting rooked. The previous growth of the club has been checked only by the fact that potential members are unaware that the game is a favorite of kings and queens. En passant might be mentioned, the intramural tournament and the student-faculty joust. A merger with the Date Bureau has been proposed to the end that every member might be enabled to find his mate.

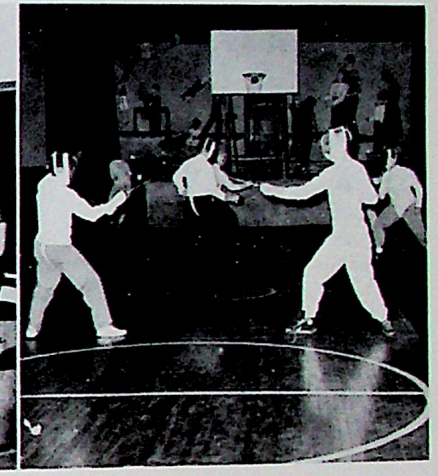
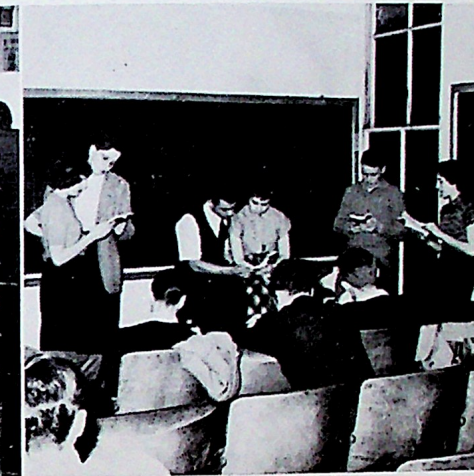
bowling

camera

chess

debating

There is in The Cooper Union a band of pugnacious young gentlemen who will go to almost any lengths in search of a good argument. Joined together in the "Debating Society" these descendants of Demosthenes are often to be found engaged in verbal battle with the students of West Point, Rutgers, Temple, Columbia, and others. When the oral wrangling is over, the group goes out for dinner, at which function the debate is usually refought without the formal speeches and rebuttals.



dramatic

Under the presidency of Eleanor G. Cohen, the thespians of Cooper-on-the-extension-of-the-Bowery came through the year with no major casualties in spite of three explosions onstage and an accidental fire. The plays produced included *No! Not the Russians*, *The Old Ragpicker*, *Riders to the Sea*, and *Dangerous Corner*. The parties after the final performances were an opportunity for the cast to let off steam, and it is even rumored that a few got drunk.

fencing

The Students of the Epée and Scimitar née the FENCING CLUB, have managed to survive another hectic year under the tutelage of Mr. Yampolsky. These proponents of the chivalric art of dueling are restricted to the use of blunted weapons, and hence instructors who flunk a member of the club may still feel reasonably safe.

Martin Jaffe, president of the club, has a long standing feud with George Wrage, president of the Rifle Club. The feud is long standing because George once shot Marty in the seat of the pants.



folk song

THE FOLKSONG GROUP may often be heard during sunny lunch hours on the steps of the entrance to the lobby. Here gather the devotees of the guitar and the folk-song, displacing the vagrants from their accustomed haunt for a brief space of time. One can easily forgive them, though, while listening to the inspired strains of "John Henry" or "Manuela," as sung by the larks and bullfrogs of the club and anyone else who happens to be around. Floyd Hasselriis, faculty advisor, strums a mean guitar himself.



hiking

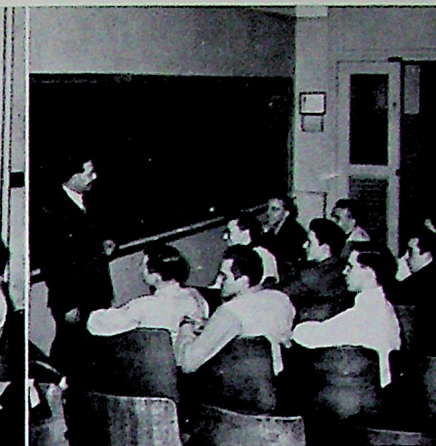
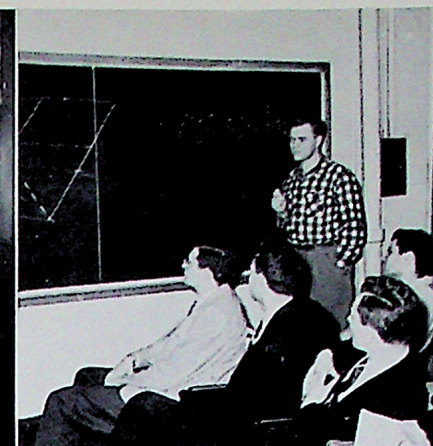
The number of feet in the HIKING CLUB has grown tremendously with the admission of two centepides as members. Seriously though, the club's rapid growth since its start two years ago is due to diversified co-ed activities, ranging from sub-zero camping trips to walks along the Palisades.

A trail system has been blazed at Green making it possible for every club member to get lost in the woods. For those who wish to remain lost, a shelter has been built on top of Cupsaw Mountain.

humanities

For those engineers capable of seeing beyond the hairline of their slide-rules, and for those artists interested in creations of the mind as well as the hand, the HUMANITIES CLUB (also known as the Humane Society) was formed.

Composed of separate committees, such as Social Philosophy, Fine Arts, Theater, and Literature, members work within the committees and prepare programs for the club as a whole. During the year there have been lectures, the "Art by Engineers" exhibit and a memorial to Edna St. Vincent Millay. Still in its infancy, the club hopes for broader programs to come.



The Cooper Union Chapter of the INTERCOLLEGIATE ZIONIST FEDERATION OF AMERICA was organized in 1948 by a group of Cooper students who felt the need for an organization on campus in which Jewish cultural and religious activities could be carried out.

After lying dormant for a year, the IZFA was revitalized in December 1949 by segments of the freshman class, and once again functioned on an active basis. A program was formulated for the spring semester and the rejuvenated chapter now shows signs of great promise.

izfa

The MATHEMATICS SOCIETY at Cooper believes that mathematics can be interesting as well as useful. It introduces its members to new methods of analyzing old problems and to new problems which are deserving of attention. Every effort is made to supplement the work done in school with lectures on topics related to the courses. In order to achieve this close interrelation between lectures and school work, the club has been divided into freshman and senior groups. The lectures are given by student members, teachers, and outside speakers.

math

The NEWMAN CLUB exists for the expression of Catholic culture and the enjoyment of Catholic fellowship. Weekly meetings are held to discuss topics of spiritual and intellectual interest. Subject matter is chosen to increase the knowledge and understanding of the Catholic faith. Social events in the past year have included a party held with members of the Brooklyn College and Hunter clubs. There were also two trips to Green Camp and a communion breakfast in addition to the Annual Convention of the New York Province.

newman

Many a freshman, strolling past room 203F on a Thursday afternoon has had the impression that witch-whipping is still going on . . . and at Cooper yet! This is to inform those who lacked the nerve to peek in, that it was only the Cooper Orchestra rehearsing.

Under the direction of Professor Roemmele, the orchestra played for several highly successful dances sponsored by the Women's Club.

The lush string section, composed entirely of inebriates, was led by senior Myron Paganini Levitsky, who leaves his catgut wail to eager freshmen.



orchestra

This year, some Senior EE's seem to have gotten their wires crossed. The result was christened the RADIO CLUB. The club intends to foster the development of ham radio operators and facilitate their licensing as amateurs. Members intend to build and maintain their own sets. Plans are in the offing for a room to be put at their disposal somewhere in the Hewitt Building. If the club grows sufficiently, who knows, someday there may even be a "Voice of Cooper Union."

To avoid bill collectors and repel alms seekers, a group of penurious students has banded together in a mutual protective association known as the RIFLE CLUB. When weapons alone prove ineffective to escape the claims of creditors and the pleas of mendicants, they withdraw from the ranks of civilized society to a cabin at Green Camp, where they often remain in hibernation for the winter. Erected by the sweat of their brows, the cabin serves as a meeting house for alumni and collegiate members.

radio

rifle

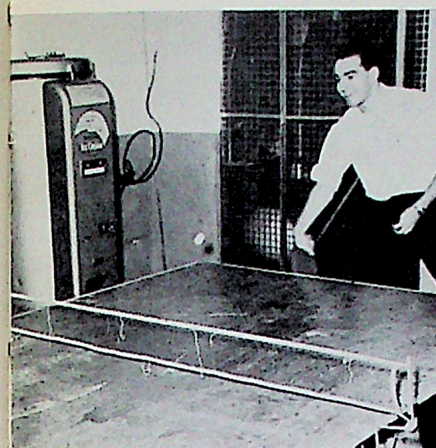


table tennis

The TABLE TENNIS CLUB is often to be found in the basement dungeon of the Foundation Building. Here they lay a table across two long suffering horses (wooden) and proceed to paddle the air out of several ping-pong balls daily. Several members of the club, jealous of superior opponents, once seized an opportunity to punch holes in the favorite paddles of their foes. The perpetrators of the deed were punished by a two-months exile to the ranks of the paddle tennis players in Cooper Square Park.

u w f

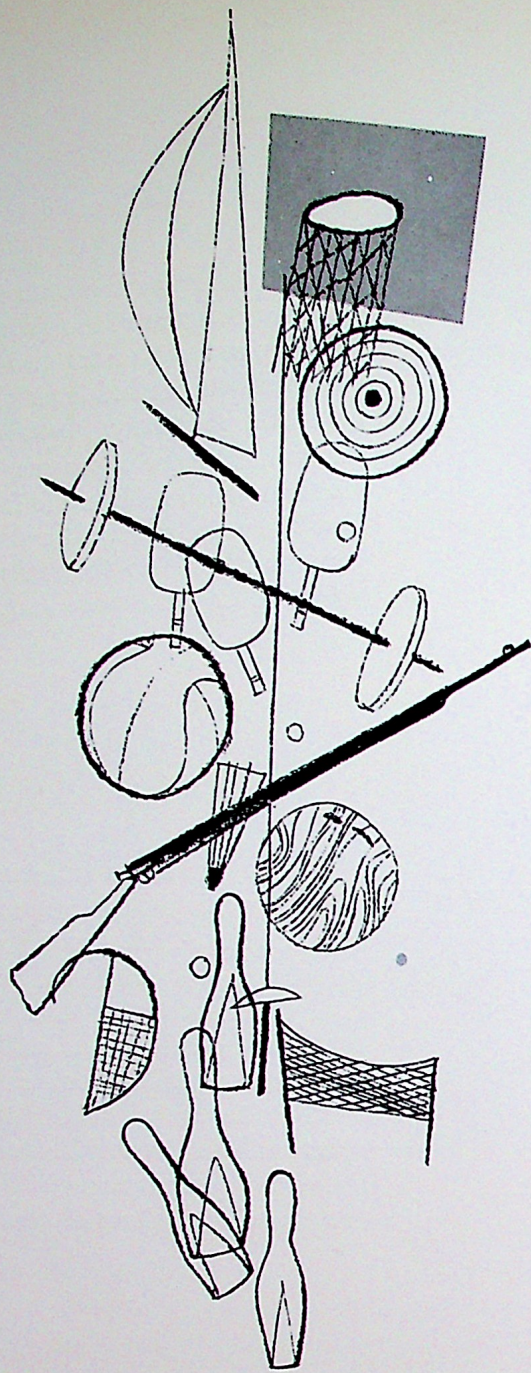
THE COOPER UNION STUDENT CHAPTER OF THE UNITED WORLD FEDERALISTS is devoted to strengthening the United Nations into a world government with powers limited but adequate to preserve peace. This year there was an exhibition on the Declaration of Human Rights of the U.N. in the Student Lounge. Also presented was a world government forum program sponsored by the Social Philosophy Division of the Humanities Club. The U.W.F. is now working out a complete education program which it is hoped will clarify many of the problems of world government.



yacht

Entering its sixth year of activity, the YACHT CLUB has made a good showing during the past annum. Three sailboats, built by the club in the lower reaches of the Foundation Building, have been in use for three years. They are kept at City Island and Long Island Sound, and are used for regattas, practice, and training, as well as for informal sailing by club members. Offering a stimulating outdoor activity to expert and novice alike, the group has become a relief haven for hard-pressed Cooperites.





COOPER UNION ATHLETIC ACTIVITIES

Cooper Union is a small school, but one with an abundance of spirit, as evidenced by the existence of organized sports in spite of the heavy burdens of homework and personal obligations. Athletic activity ranges from the Ping-Pong Club, where any and all, skilled and unskilled, may participate, to the highly technical occupation of varsity basketball. In the intermediate range may be found such sports as volleyball, bowling, paddle tennis, swimming, weight lifting, fencing, rifle, and yachting, each of which offers to students a chance to forget for a time the rigors of academic study; to relax for a while in the enjoyment of a purely physical activity. The following pages will illustrate a few phases of this athletic life.

ATHLETIC ASSOCIATION



The 1950-51 season was a banner one for The Cooper Union ATHLETIC ASSOCIATION.

The Third Annual Field Day started the year with a bang. An estimated two hundred people, the largest crowd yet, jammed Green Engineering Camp to participate in the races, egg throwing contest, and scavenger hunts that make up a fun filled frolicsome field day.

The intramural picture was enlarged by the addition of a new activity, ping-pong, which attracted a considerable following. Another innovation in the intramural field was the extension of bowling to a year-round feature.

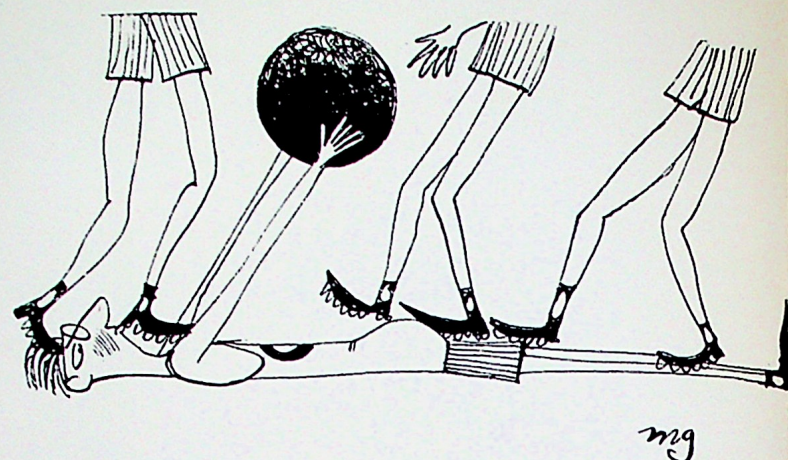
A new volleyball club made its appearance and the varsity team which was recently formed should make Cooper one of the pioneers in metropolitan volleyball.

For the first time in Cooper's recent history, a basketball rally was held the night before the Pratt game. The appearance of the newly formed cheerleader squad at this occasion brought forth some of the old Cooper rah-rah spirit and inspired the team to a decisive victory over our traditional foe.

The newly constructed portable ticket booth facilitated ticket sales above and beyond anything done in previous years.

Last but not least, the *A.A. Headlines* came of age and served to promote interest and participation in the many A.A. functions and to keep the student body up to date on current A.A. events.

VARSITY BASKETBALL



The games against Wagner, Brooklyn Polytech, Pratt, Hofstra, Adelphi, and Kings Point were part of the schedule of the Greater New York Collegiate Conference. Of these games, Cooper lost only one decisively, to Hofstra. The games against Wagner and Polytech were close, and the Coopermen gave up the game to Adelphi only in overtime. Pratt and Kings Point were wins for Cooper, 70-61 and 76-60, respectively.

High scorers for the hoopsters were 6'2" Bob Kolb and 6'1" Jack Lynch. Kolb, captain, was last year elected to the Conference "All-Star" team, and was second highest scorer in the league. Lynch averaged 19.5 points per game.

The strong rebound man for the team is Ken Downs, 6'4" center, and Stan (the man) Dumovich is at present the basketeters' most effective set shooter. When Al Anaya was injured early in the season, Mel Epstein took over as right forward, where he has proved a snappy ball handler in spite of being only 5'8".

In the non-league games against the alumni, Brooklyn Pharmacy, Webb, Walter Hervey, Philadelphia Textile, Yeshiva, and St. John's Pharmacy, Cooper at present has a triumphant record of 7 won and none lost.

The fine work of the Basketball Team can be attributed in large measure to the efforts of Coach Dave Tobey. Long a prominent figure in the basketball world, Mr. Tobey is well known not only as a coach, but as a referee, player, and lecturer. In his earlier years he played with several professional teams and was a member of Lou Gehrig's "All Stars." Recognized as one of the finest officials in the game until his retirement in 1940, he has written an authoritative work on the subject entitled "Basketball Officiating," which is used as a text by many schools, coaches, and officials throughout the country.



BASKETBALL TEAM

George Altonji
Al Anaya
Ken Downs
Stanley Dumovich
Mel Epstein
Joseph Fischer
Jerrold Franklin
William Johnson
Robert Kolb
Allen Kushnick
Earl Lillie
Jack Lynch
Alfred Palmer
William Paulus
Thomas Ramoino
Rob Roy
James Siwik
John Heidengren,
Manager

SEASON RECORD 1950-51

GAME	COOPER	OPPONENT	GAME	COOPER	OPPONENT
Cooper Union			Philadelphia Textile	77	69
Alumni	68	44	Kings Point	76	60
Brooklyn Pharmacy	78	48	Yeshiva	62	56
Hofstra	41	74	St. John's Pharmacy	76	65
Webb Institute	65	53	N.Y.S. Maritime		
Adelphi	64	69	Academy	50	41
Walter Hervey	74	57	Concordia Institute	87	63
Wagner	69	76	Queens College	110	105
Brooklyn Polytech	64	73	Brooklyn Evening	59	55
Pratt Institute	70	61	Columbia Pharmacy	55	28

Bowling Team

Week after week, in rain or in shine, in sickness or in health, the stalwarts of the sixteen pound ball and ten pin bowl at the City Hall Alleys, competing against such teams as Columbia, Fordham, and St. John's.

For those of our readers who aren't familiar with the team, let us explain the nicknames of some of the members. "Allah" Silverman is a new one. At one of the matches during the year, he seemed to have pulled a muscle in his back. To alleviate the pain, every time he got up to bowl, he would pick up his ball, face the East, and solemnly bow three times. After that he would face the alley and throw a strike.

Toczek's a different story. His style of delivery is such, that when he is getting ready to bowl, he bends from the waist and lets his arm swing to and fro a half dozen times, simulating the pendulum of a clock, hence, "Tick-Tock" Toczek.

Four of the boys are leaving us this year, bless their little souls—Captain Johnny McHale, Manager Bob Muller, Murray Silverman, and Hugo Toczek. Here's wishing them luck in the cold, cruel world.

John McHale
Robert Muller
Kenneth Ozer
Morris Rosenberg
Robert Ronchetti
Murray Silverman
Hugo Toczek
Sidney Zigas



Fencing Team

Some of the potential members of The Cooper Union Fencing Team, early in the season refused to take the non-hari-kiri oath, and hence were disqualified from participation in team activities. A loss of experienced men, some of whom had graduated, and others of whom had violated the oath, led to a deficit of varsity material. Overcoming this difficulty by dipping into the supply of innocent freshmen, the team surged forward to lose to Stevens Tech and Pace.

The team this year was carried along by the diligent, if futile, efforts of Jerry Marks, Larry Kreshin, Jerry Widoff, and Arne Olsen, the latter of whom last year won the "killer of the year" award.

Martin Jaffe, Vic Liguori, and Olsen are leaving this year if they are not fatally wounded in the interim between this writing and the time of graduation. Best of luck!

Victor Liguori,
Captain
Stanley Brust
Alexander Demaras
Norman Griner
William Harvey
James Hunt
Martin Jaffe
Lawrence Kreshin
Gerald Marks
Arnold Olsen

Rifle Team

Often on Friday afternoons a group of armed men be seen carrying a black box through the hallowed halls of Cooper. Though sometimes mistaken for denizens of the underworld, they are actually harmless members of the Rifle Team.

In view of the successful season against opponents in the Metropolitan Intercollegiate Rifle League, Captain Bob Ronchetti has been toying with the idea of having team members throw rather than shoot the bullets.

In addition to meets with other colleges, rifle practice and instruction on Friday nights, highlights of the year have included camp trips to the Rifle Cabin, a venison dinner, and the gala event for gun guys and gals, the Gano Dunn Match.

With the graduation of George Wrage and John Proctor, most of the old gang will have left. They could be kept here by shooting them, but unfortunately human beings aren't in season around graduation time.

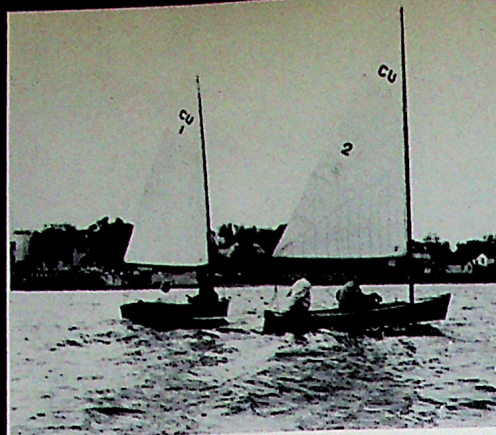
Norman Becker
Robert Booman
William Elhoff
Gerald Field
Richard Flohr
John Proctor
Robert Ronchetti
Henry Schreiber
Robert Skowronek
George Wrage



Spike it!

Volleyball Team

Norman Brodesser
Ralph Caro
Herbert Ebenfield
Joseph Fischer
Morton Hausner
Walter Illg
Bodo Neuman
Harold Rivkovich
Walter Rosen
James Trapkin
Joe Weisher
Imre Zwiebel
Fred Dornheim,
Manager



A-Sailing

Sailing Team

Gary Evans
Richard Graven
George Wrage
William Zschaler
Richard Flohr
Julius Franklin
Allan Haughwout
Anthony Ianuzzi
Lawrence Kreshin
Arthur Lampert
Maurice Lynch
Ronald Mayrbaur
Robert Ohlmann
William Van Zwienen

The 1950 sailing season at Cooper was somewhat of a letdown from measure to be credited for aiding the growth in popularity of the game in the metropolitan area. Many institutions are forming teams, and it is expected that in the very near future competition will be as keen and exciting as that in any other sport.

Under the able coaching of Mr. Morris Zarchen, an excellent team has been built up here at Cooper, increasing greatly in membership and improving immeasurably in quality from last year to the present.

The team has in the past accepted invitations to participate in the Eastern Intercollegiate Championship at Springfield, Massachusetts, where their performance has reflected honorably on the name of the school.

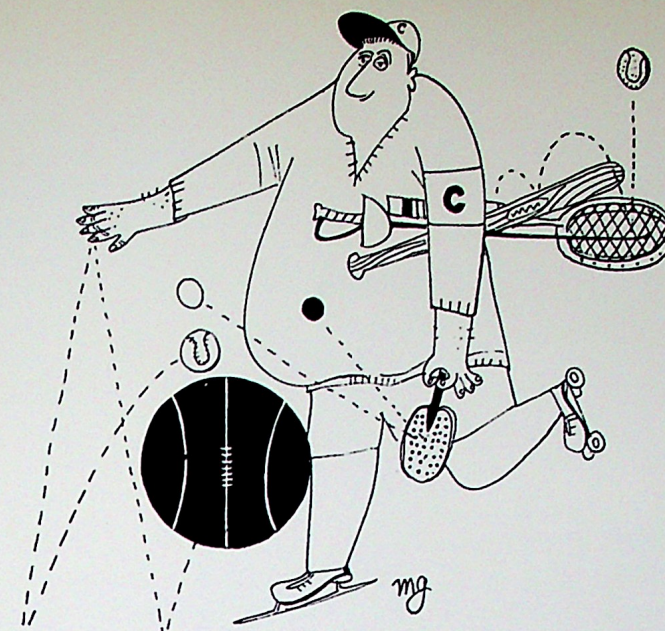
At the time of this writing, Fred Dornheim, manager of the team, has just arranged a schedule of games, including matches with McBurney Y.M.C.A., Prospect Y.M.C.A., N. Y. Turn Verein, Pratt, Queens College, Newark College of Engineering, and Columbia.

If Joe Fischer and Walt Rosen, co-captains, live up to the promise they have shown thus far, the team is confident of an eminently successful season.

The 1950 sailing season at Cooper was somewhat of a letdown from the year before when Ed Trunk and Fred Horn were racing. However, considering that Cooper was left with an all-sophomore team which nevertheless made the Middle Atlantic Finals, the showing wasn't so bad.

There is a rumor which is wholly unfounded in fact that Vassar won every race at the Triangular with Lafayette and Cooper last fall. The explanation is that just before the race two of the four Cooper men up-ended and another got soaked pulling them in, so that all three were too wet to race. The high spot of the year was the final meet in which C.U. swamped two under-par teams from Stevens and Wagner by winning six out of six.

The new year looks prosperous with no one graduating but George Wrage. One resolution made by the team is to attempt to keep Dick Graven, who holds the records for consecutive fouls, from attacking the boys . . . er, pardon us, buoys, and other boats while they are minding their own business. Fortunately, sailors aren't disqualified for five personal fouls in a meet.



COOPER INTRAMURALS

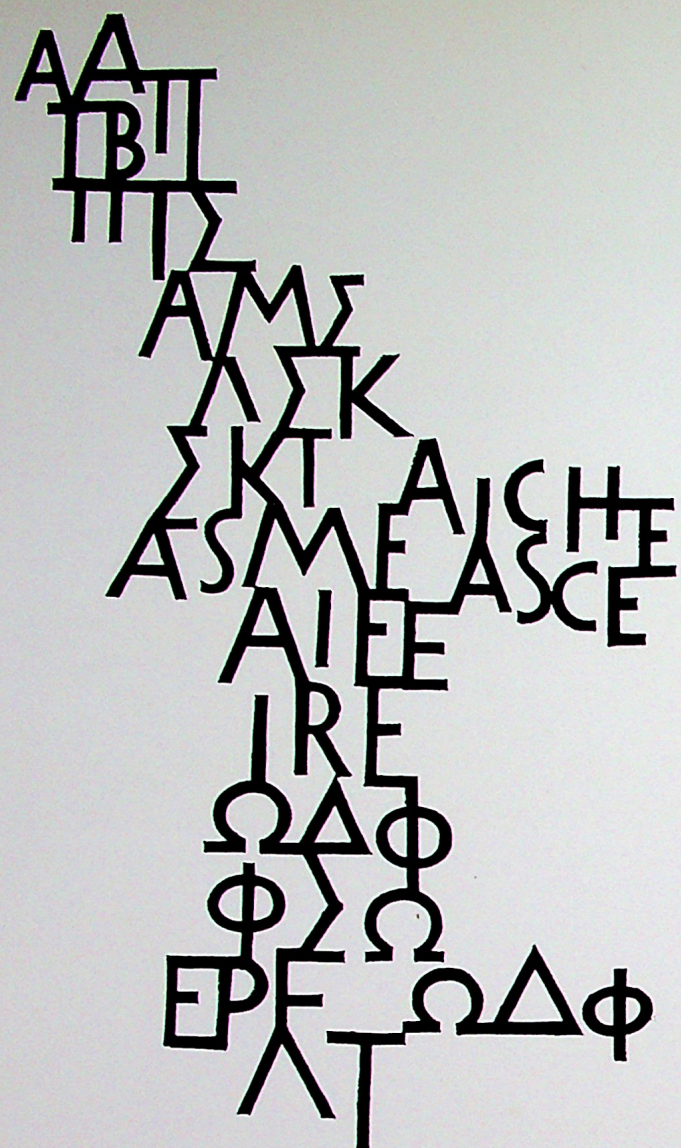
In line with our policy of being different, we bring you a behind the scenes view of the Cooper student when he gets home at 8:00 P.M. to eat his cold supper.

Mother: "Can't you ever get home in time to eat?"

Little Louie: "Gee, mom, I had to play ball with my class in the intramurals. We have a good chance to win the tournament."

That's the way it probably goes. Volleyball starts in October and runs for a month. Then mother thinks Junior will finally come home in time to eat, but no, C.U. has other plans for him. He just has to bowl with his buddies down at Bowlmor. Another month or so and mother still has hopes of serving Junior with a hot meal at 5:30; but Junior has been practicing basketball during the Christmas vacation and is now the captain and star of his class team.

When his arches finally go flat it is approaching March and mother has all but given up hope of ever seeing Junior again. She is right. Junior is now to be a four letter man. Softball is really his game. He stars at shortstop until he sprains his ankle and wrist simultaneously while playing in the handball tournament which just happened to run into softball. Now he is sidelined with an injury, with the result that he engages in a quiet game of competitive paddle tennis under the sunny skies and El shadows of Cooper Square. At least now, his mother remembers him although he has changed since the last time she saw him. He has that rugged, yet well worn look of a participant in Cooper's mild and reserved extracurricular activities.



COOPER UNION SOCIETIES

During his period at Cooper, the student undergoes a remarkable transformation. By the time of graduation, he has usually traveled a good way on the road to becoming a mature individual, capable of understanding his chosen work and its relation to life and the surrounding world. Much of this transformation is directly attributable to the branch societies of the professional organizations, the social fraternities, and the honorary societies. These compensate for, and complement the purely technical training he receives in his scholastic courses. Through the easy opportunity to form friendships and associate with people of like interests, there is fostered in the student an appreciation of his future role as a practicing professional and an enlightened human being.

Chairman Stanley Lazerus
 Vice-Chairman Alexander Demaras
 Secretary-Treasurer Clifford Temes
 Faculty Adviser Professor Raymond Dowden
 Eleanore Cohen
 Fred Kirr
 Martin Kurz
 Myron Levitsky
 Marilyn Marcus
 Harry Rosenberg
 Norman Shapiro
 Marvin Siegel
 Robert Spies
 Max Traite
 Bernard Wilner



Left to Right, Top Row: H. Rosenberg, N. Shapiro, E. Cohen, M. Marcus, M. Levitsky, B. Wilner, B. Spies. Front Row: F. Kirr, C. Temes, S. Lazarus (in absentia), M. Siegel, M. Kurz.

Ex Post Facto

With the publication of the 1951 CABLE, Ex Post Facto celebrates its twenty-fifth birthday. The honor society of the CABLE was founded in 1926 to reward those editors and staff members who offered time and effort far beyond the limits ordinarily expected of Cooper Students, to establish a nucleus which would train future CABLE editors, and to form an organization which would provide social and recreational activities for CABLE staff members. These purposes have been retained till the present.

This semester, some of the present staff members were inducted and although most of the work of publishing the CABLE was done by members of the senior class, several lower classmen held key positions which will enable them to carry out the work of publishing future issues.

The social side of Ex Post Facto was demonstrated by a riotous party in April. The owners of the place where it was held are still looking for the chandeliers.



Members of The Alumni Association Governing Board.

President	Anthony J. Daidone
First Vice-President	Adolph J. Wohlgemuth
Second Vice-President	Jack U. Gould
Secretary	William Lukacs
Treasurer	Hercules C. Cuttica
Editor-in-Chief, Alumni News	Donald A. Sweet
Executive Secretary	Flora I. Fergenson

With your graduation from The Cooper Union undergraduate body, you become an "immediate" member of a much larger branch of the Cooper family—THE COOPER UNION ALUMNI ASSOCIATION. Close to 2,000 men and women are your "close relatives" now—the active members of the Association. And all of them, individually and collectively, stand ready to extend a helping hand to a fellow alumnus.

The purpose of the Alumni Association is twofold. It is, in brief, to help the school and to help Cooperites. Much of the help to the school is, of course, financial. During the past year contributions were made to all the athletic clubs and teams to enable them to function and, to THE PIONEER. A particular protege of alumni is the Yacht Club, whose boats were financed by the Alumni Association. Prizes and awards for academic excellence are given annually.

Alumni Association

The Cooper Union Fund, which quadrupled in the two years between 1948 and 1950, reflected the growth in membership and activity of the Alumni Association. Alumni Pond at Green Engineering Camp was created by the construction of the dam which was built with more than \$10,000 which was raised in an intensive drive of less than three months.

As an alumnus you will be entitled to help yourself to the many facilities, activities and opportunities offered by the program of the Association. Do you want to exhibit your paintings? The newly formed Peter Cooper Gallery offers facilities for a showing at small personal expense just for framing and opening night refreshments. Or, are you going to take the exams for a professional engineer's license? The Alumni Association's P.E. Review Course is a planned and proven "cram" course expressly designed to prepare you. The course is nominally priced and members are given a special discount as well as preferred enrollment.

Of you can keep your hand in at the Sketch Class. Or maybe you would like to hear leading professional alumni tell about interesting and little known angles of their (or your) specialities, or discuss subjects of general interest. These at the monthly General Meetings. (Refreshments afterwards.)

Athletic events, social events which include the gala Founder's Day Dinner-Dance and the weekend outing at Green Camp in September, work on the Alumni News or other committees, all these enable you to get even more than you give, to keep in touch with your classmates and to meet other alumni, to develop skills and to form valuable contacts.

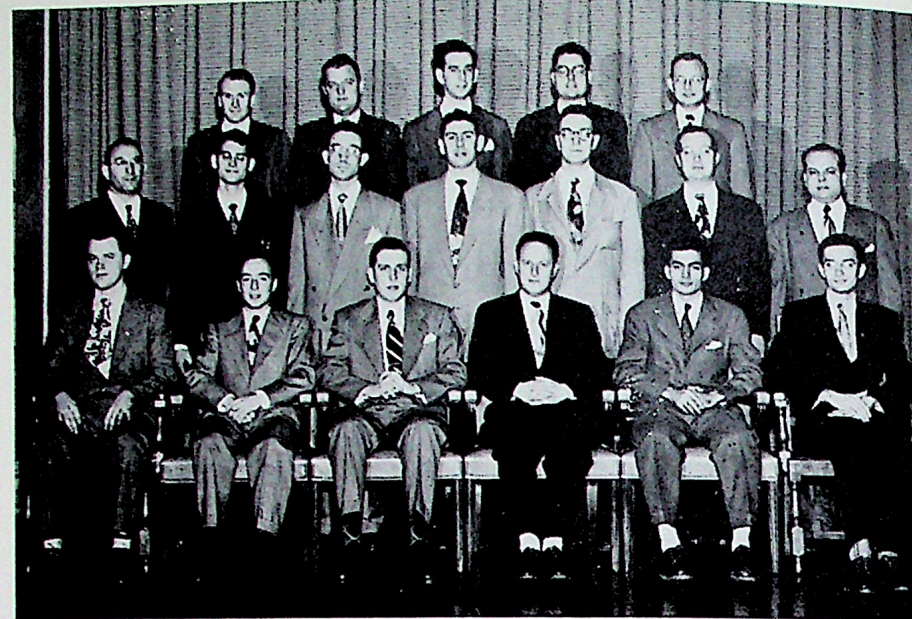
The lounge of Alumni House on West 53rd Street is available for class meetings and group get-togethers.

The Alumni Association looks to its younger members, among whom the class of 1951 is now taking its place, for fresh stimulus and active participation in all its activities. It welcomes you to the Cooper Union alumni family.

President
Vice-President
Corresponding Secretary
Recording Secretary
Treasurer
Cataloguer
Faculty Adviser

Philip Auerbach
Arthur Robinson
Benjamin Bayman
Peter Redmond
William Sullivan
Myron Levitsky
Professor Miller

Frank Babos
Thomas Buday
Rupert Hoover
Fredrick Kirr
Edward Neidorf
Robert Ohlman
Erwin Rausch
Jerome Sackman
Alfred Schneider
Michael Silverberg
Calvin Singer
Joseph Sorrentino
Robert Spies
George Tishkewitz
Gustave Weiss
Joseph Wilker
C. J. Willis



Left to Right, Top Row: E. Rausch, F. Babos, A. Schneider, R. Spies, C. J. Willis. Middle Row: J. Wilker, F. Kirr, J. Sackman, E. Neidorf, M. Silverberg, C. Singer, J. Sorrentino. Front Row: P. Redmond, B. Bayman, A. Robinson, P. Auerbach, W. Sullivan, M. Levitsky.



Tau Beta Pi

In keeping with previous practice, the New York Iota Chapter of TAU BETA PI conducted its free tutoring program during the Summer of 1950. Thirty-five students participated in one or more of the seven courses that were given. Classes met at Cooper once a week for eight weeks. Considering the voluntary nature of the program, the attendance was excellent. And the fine performance of the students on the re-exams was gratifying to all the Tau Bates who helped make the program possible.

In September of 1950, the first winner of the Tau Beta Pi Award for Excellence in Humanities was chosen. He is Julius Szego, author of the paper, "A Short Essay on Time." Judges for the competition were Professors Embler and Watson of The Cooper Union and Professor Frank Knox of Queens College, Ontario. Mr. Szego will be presented with a \$50 United States Savings Bond at the Graduation exercises in June, 1951.

These two items comprise the principal activities of the society. However, they are not all. For example, at present a study is being made of faculty-evaluation systems in other colleges, with the purpose of determining their applicability to our campus. This is typical of the work that is going on—a conscious effort on the part of a few students to make a significant contribution to the student body of Cooper Union.

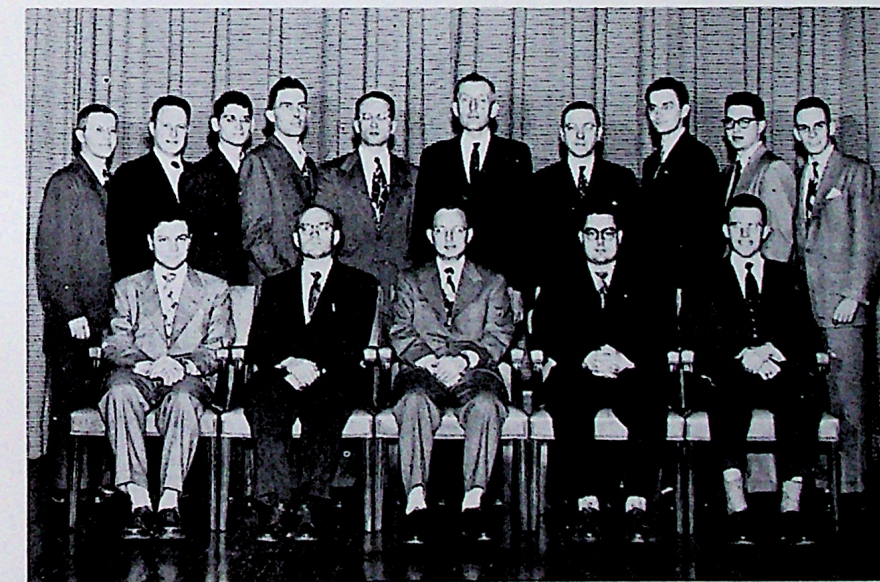
Pi Tau Sigma

Under the leadership of Professors Vopat, Roemmele, and Kut, the Cooper Union Pi Phi Chapter of PI TAU SIGMA successfully completed its second year of existence. Founded to honor outstanding students of Mechanical Engineering, and to serve as a link between the faculty and the student body, the society carried on its policy of service to the school.

Among the activities of the society were service to the Department of Mechanical Engineering and ushering at the Annual Open House. Eight men were honored with membership this year, and two of them, David Reiff and Walter Lenk, received copies of Mark's Handbooks for achieving the highest averages in their respective classes. Inaugurated this year was a policy of holding annual smokers, at which time the prospective members could informally meet and be met by the active members of the group.

It is the hope of the organization that the mechanical engineering students in the future will continue to strive for membership, through excellence of character and scholarship.

Left to Right, Top Row: S. Dambra, P. Auerbach, F. Kirr, F. DuPont, Mr. E. A. Bogucz, Prof. W. Kut, Prof. H. Roemmele, M. Levitsky, B. Wilner, H. Bernstein. Front Row: A. DiGiulio, H. Wolff, C. J. Willis, R. Spies, A. Soffler.

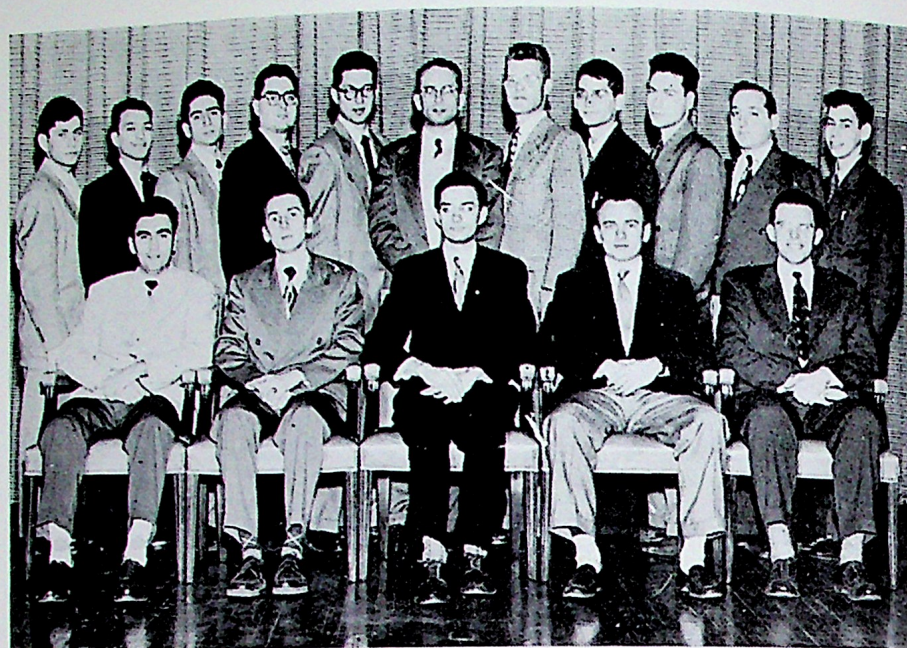


Philip Auerbach
Harry Bernstein
Thomas Buday
Salvatore Dambra
Frank DuPont
Rupert Hoover
George Jones
Frederick Kirr
Walter Lenk
Myron Levitsky
William Neuner
David Reiff
Henry Ryffel
Bernard Wilner
William Zschaler

President: C. J. Willis
Vice President: Robert Spies
Recording Secretary: Arnold DiGiulio
Corresponding Secretary: Harry Wolff
Treasurer: Alvin Soffler

Officers

Chairman: Myron Levitsky
Vice Chairman: Allen E. Haughwout
Secretary: William A. Zschaler
Faculty Advisor: Mr. E. A. Bogucz



Left to Right, Top Row: H. Kleinman, A. Vaillant, S. Aronoff, R. Spies, B. Wilner, Mr. E. A. Bogucz, T. Glasser, F. Kirr, B. Silverwater, R. Feinberg, R. Lesem. Front Row: F. Lewicki, S. Mader, M. Levitsky, M. Chipura, A. Soffler.

American Society of Mechanical Engineers

To parallel the activities of the national society on a local level, and to aid in the professional development of the student—these, broadly, are the aims of the Student Branch of the AMERICAN SOCIETY OF MECHANICAL ENGINEERS. To this end, the society presents a program of student papers and discussion sessions, field trips, technical movies, and talks by prominent men on pertinent topics of engineering and general interest.

During the 1950 spring semester, among the various activities sponsored by the society were an all day trip to the steel mills at Bethlehem, Pennsylvania, and participation in the Metropolitan Student Convention. As expected, Cooper walked off with first prize paper money, in the person of Joe Engelberg.

The focal point in the fall semester's activities was the twenty-seventh annual ASME Christmas Dinner, which was attended by well over one hundred students, alumni, and instructors. Allen Haughwout, chairman of the dinner committee, aided by chairman emeritus Al Soffler and a capable staff (thanks, Miss Nolan), provided for the success of the evening with a program including guest speaker Mr. Lustig of the E.E. department, a rousing performance of "Ist das nicht ein M.E. department?" by Prof. Eastham, a humorous skit by the "younger members of the department," Messrs. Bogucz, Hasselriis, and Yampolsky, and—of course—the usual free beer.

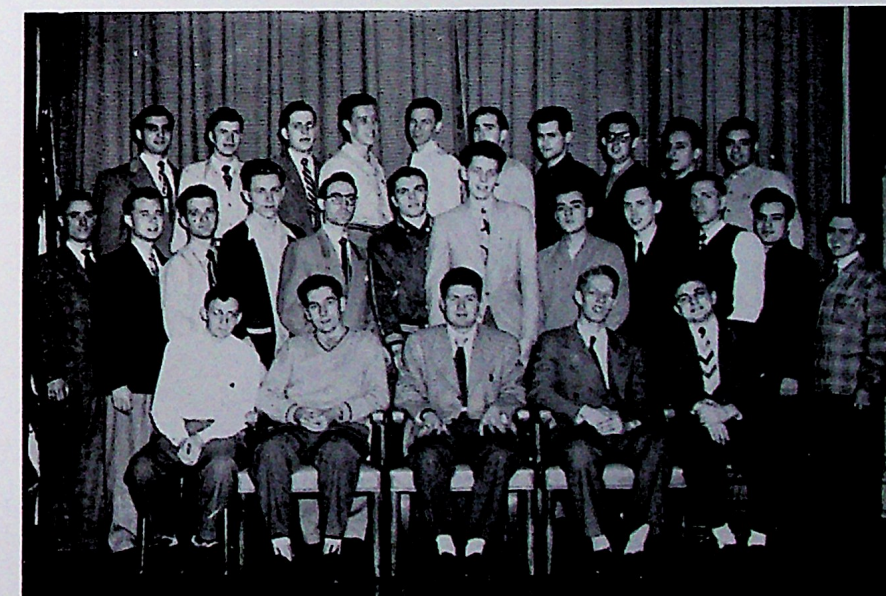
American Society of Civil Engineers

The Student Chapter of the AMERICAN SOCIETY OF CIVIL ENGINEERS serves a dual purpose at Cooper. First, it provides a valuable link between the student in school and the profession outside. Secondly, and just as important, it engages in many varied social activities.

In the professional field, the Chapter arranges lectures by outstanding engineers, who this year have spoken on such diverse subjects as Tunnels, Smoke Abatement, and Safety. Speakers also include students who recount their experiences in summer jobs or inform the Chapter about special researches in topics of Civil Engineering. Such student papers are encouraged by a contest with prizes offered by the Alumni Association. Field trips to construction sites and plants in the Metropolitan area round out this phase of the work of the Chapter.

One of the chief social events of the year sponsored by the Chapter is the Annual Dinner. Here students, faculty, and alumni can get acquainted outside the classroom. On a still less formal level are the Sophomore Beer Party and the trips to Green Camp. The *Cooper Survey*, the Chapter's house organ, informs members of the latest activities and sports events, and provides an outlet for the literary talents of the C.E.'s.

Left to Right, Top Row: V. Bonvissuto, R. Schwab, A. Robinson, W. Rosen, N. Brodesser, M. Lynch, R. Maybaur, A. Chajes, I. Minkin, M. Siegel. Middle Row: J. Hornik, J. Chromy, A. Wasserman, J. Heidengren, J. Sackman, J. Fischer, C. Heidengen, H. Semmel, G. Adam, A. Benton, B. Berger, W. Sewing. Front Row: A. Fischer, G. Tishkewitz, L. Laster, H. Wenke, N. NMN. Feldman.



Officers

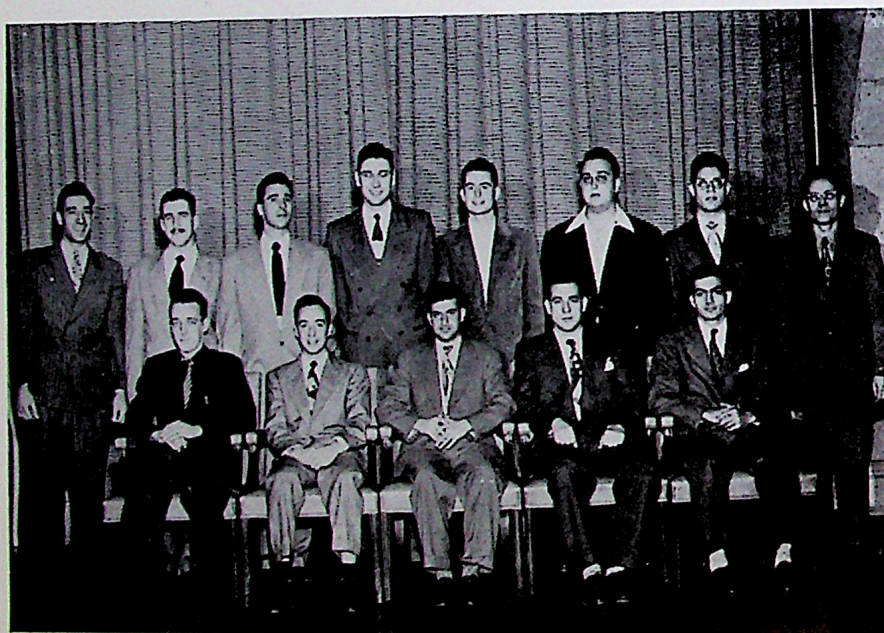
President: Leon J. Laster
Vice President: Harry N. Wenke
Secretary: Alvin Fischer
Treasurer: George Tishkewitz
Faculty Advisor: Prof. J. O. Eichler

The AIChE lives, breathes, and is geared to the Annual ChE reception. This year, in keeping with tradition, was bigger and better than ever. A short skit, which was followed by donuts and cider, showed what happens when a ChE stumbles into King Arthur (Radasch's) Court.

Actually it is an exaggeration to say that this is the only thing the AIChE does. The society employs films and outside speakers to familiarize the embryonic chemical engineers with their profession. The topics discussed include methods of research, testing pilot plant operation, industries, equipment, and personnel.

This year was particularly noteworthy, for it marked the acceptance of The Cooper Union Chapter as a Student Chapter of the parent organization. It is hoped that the association will be a long and fruitful one.

American Institute of Chemical Engineers

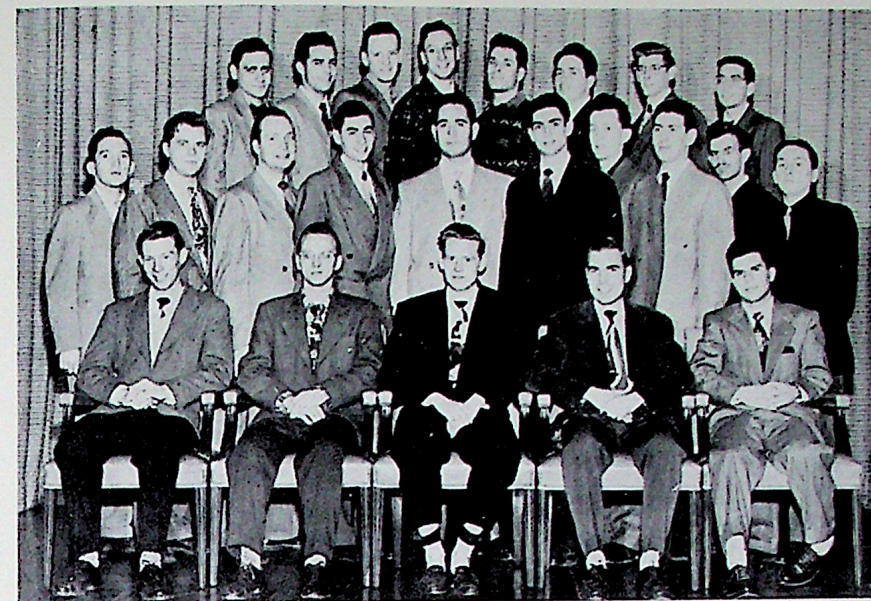


Left to Right, Top Row: D. Schwartz, M. Kurz, W. Gordon, H. Serenbetz, M. Zonis, L. Kraus, L. Gabay, L. Souzis. Front Row: J. Proctor, B. Bayman, G. Weiss, M. Snyder, W. Sullivan.

Officers

President: Gustave J. Weiss
Vice President: Milton Snyder
Secretary: Benjamin F. Bayman
Faculty Advisor: Prof. J. M. Peterson

Left to Right, Top Row: T. Montuori, G. Evans, L. Rettig, W. Kahn, E. Lowe, J. McHale, J. Brandinger, H. Rosenberg. Middle Row: B. Novack, P. Redmond, J. Oxley, C. Temes, M. Traite, J. Franklin, R. Roden, E. Neidorf, L. Green, M. Silverman. Front Row: W. Elhoff, R. Ohlmann, W. Evers, G. Ehrenstein.



American Institute of Electrical Engineers—Radio Engineers

The aim of the Cooper Union Student Branch of the AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS is to develop within its members an understanding of Electrical Engineering and a familiarity with the type of work performed by professional men in industry. To accomplish this, a wide variety of subjects is considered at meetings.

The first lecture of the year was a talk by Prof. Wolfe of the Physics Department on "Particle Acceleration," followed by an inspection trip to the Columbia University Cyclotron. The principle of correlating field trips and lectures was continued throughout the year. A lecture on "Color Television" was complemented by an inspection tour of WOR-TV's transmitting station and a lecture on "Illumination Engineering" was followed by an inspection trip backstage to Radio City Music Hall, where members' eyes were observed to light up when they saw the Rockettes.

During the course of the year, a constitution was drafted merging the student branches of the AIEE and IRE, which now functions as a single unit. The branch expects to continue its program of lectures, films, and field trips. A party was held in January and other social functions are under consideration for next year.

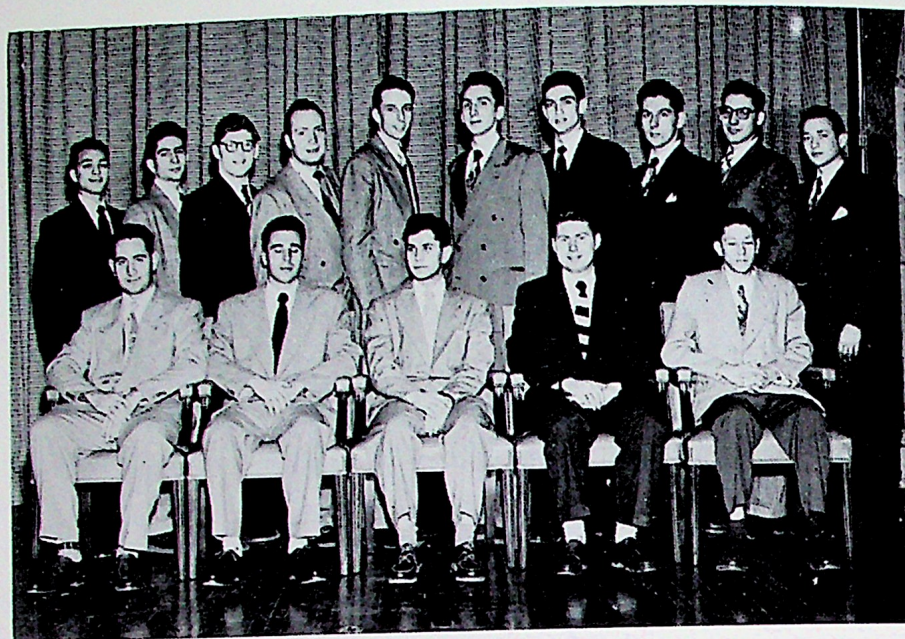
Officers

Chairman: William H. Evers
Vice Chairman: Robert C. Ohlmann
Secretary: Gerald M. Ehrenstein
Treasurer: Thomas Kociuba
Faculty Advisor: Prof. E. Starr

Harold Kleinman	Ruler
Leon Laster	Vice Ruler
William Gordon	Exchequer
Leonard Gross	Secretary

FRATRES IN COLLEGIO

Sheldon Aronoff
Donald Bass
Robert Booman
Fred Dornheim
Donald Des Jardin
Jerrold Franklin
Jack Goodman
Stanley Lazerus
Sheldon Mader
Harold Morgan
John Oxley
George Tishkewitz
Max Traite
Albert Vaillant
Richard Waldman
George Wrage



Left to Right, Top Row: A. Vaillant, S. Aronoff, R. Waldman, J. Oxley, F. Dornheim, S. Mader, J. Franklin, G. Tishkewitz, H. Morgan, A. Argoff. Front Row: M. Traite, W. Gordon, H. Kleinman, L. Laster, L. Gross.

Lamda Sigma Kappa

LAMBDA SIGMA KAPPA, from its date of inception in 1905 through the present, has maintained as one of its basic tenets the ideal of non-sectarianism. This provision of the fraternal code states that men are to be considered for induction on the basis of character and scholarship alone, with no consideration given to factors of race, creed, or color. With a mixed group such as has naturally resulted, it has been found that the ability of the brothers to act individually and collectively in the service of the school has benefited considerably from the exchange and discussion of ideas and outlook.

At the beginning of each school year, smokers are held at which pledges are selected. At these sessions, prospective candidates are urged to examine the organizations and its ideals and to compare them with their own.

During the school year, teams are entered in many of the intramural tournaments. Social functions include parties at the fraternity house with visiting house plans and sororities, picnics, roller skating outings, and horseback riding.

Escape from work and women make the Friday night stag meetings a source of companionable relaxation. When the "get away from it all" attitude becomes prevalent about Thanksgiving or Easter time, L.S.K. sponsors trips to Green Camp. Here, as at all social affairs, complete equality is maintained between brother and pledge.

FRATRES IN FACULTATE

Professor J. M. Peterson

FACULTY ADVISERS

Professor H. F. Roemmele
Professor H. W. Merritt
Professor W. A. Vopat

In 1914, the ALPHA MU SIGMA FRATERNITY was founded here at The Cooper Union. Its aims then were the same as they are now, namely, to promote and foster friendships made at school and to become a center of social, scholastic, and athletic activity. It has succeeded admirably in all of these purposes.

Of course, the center of all activity is the fraternity house which combines the best features of a lounge and library. Here numerous parties and dances, as well as many study sessions, are held.

Alpha Mu Sigma has an unusually strong representation in most school activities. Every brother, while still pledging, is made to realize his debt to society in general, and to The Cooper Union Community in particular.

Our many active alumni and alumni chapters are the best possible evidence that we have succeeded in our aims. These fratres, some of whom graduated over thirty years ago, still retain an avid interest in all fraternity affairs.

Alpha Mu Sigma



Left to Right, Top Row: S. Katzman, G. Ehrenstein, N. Baker, N. Feldman, D. Schwartz, H. Lubitz, C. Temes, D. Meyers, I. Zwiebel, M. Siegel, E. Schecker, M. Schnapp. Front Row: S. Heller, L. Rettig, H. Bernstein, H. Rosenberg, R. Ehrlich.

FRATRES IN COLLEGIO

Sheldon Heller
Ed Schecker
Morton Jacobs
Seymour Katzman
Norman Feldman
Gerald Ehrenstein
Clifford Temes
Herb Lubitz
Morris Rosenberg
Seymour Clark
Paul Liebman
Marvin Siegel
Stanley Stein

Harry Bernstein
David Reiff
Harry Rosenberg
Leo Rettig
Richard Ehrlich
Mr. D. Feldman

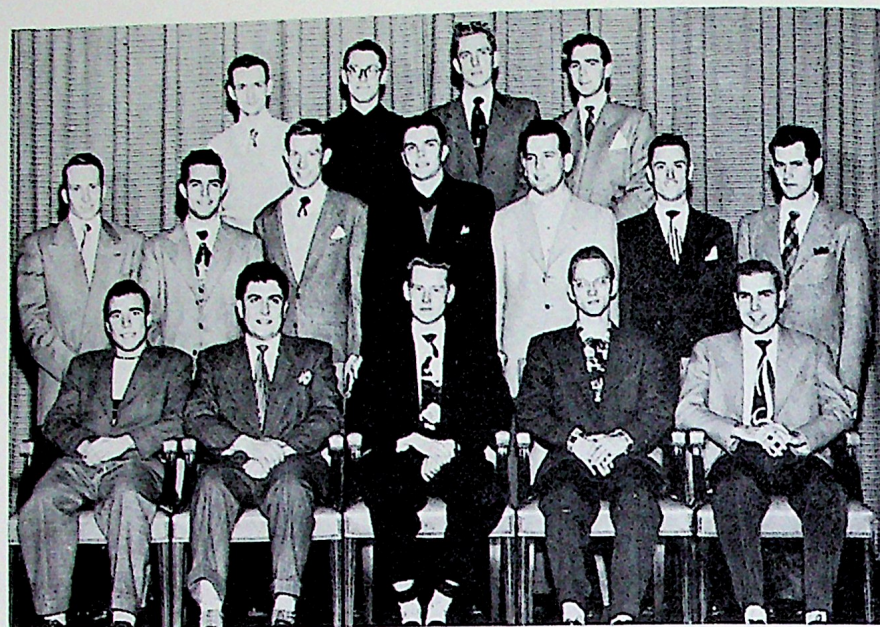
Prior
Vice-Prior
Exchequer
Recording Secretary
Corresponding Secretary
Faculty Advisor

William Evers
Emmet Covello
Robert Ohlmann
William Hafin

President
Vice-President
Secretary
Treasurer

FRATRES IN COLLEGIO

Alfred Benton
Stanley Dumovich
James Dunn
William Elhoff
Gary E. Evans
Joseph Fischer
Carl Garbe
Richard Graven
Allen Haughwout
Joseph Hornik
Robert Kolb
Thomas Kociuba
Jack Lynch
Maurice D. Lynch
Ronald M. Mayrbaur
Thomas Ramoino
Richard Ravenhall
Robert Ronchetti
James Siwik
Robert Skowronek
Daniel Starrett



Left to Right, Top Row: R. Skowronek, R. Ravenhall, A. Benton, M. Lynch. Middle Row: R. Graven, G. Evans, W. Elhoff, J. Fischer, S. Dumovich, J. Hornik, R. Mayrbaur. Front Row: T. Ramoino, E. Covello, W. Evers, R. Ohlmann, T. Kociuba.

Omega Delta Phi—Delta

At the turn of the century Omega Delta Phi Fraternity was founded. A group of students at Cooper Union, motivated by the desire to strengthen the friendships made at school, were the nucleus of the organization. After five years, their success being realized, an Alumni body was established so that the graduates could devote their time to furthering the cause and allowing the undergraduate members a freer hand in the chapter management.

In 1913, the Articles of Incorporation were granted to the brotherhood by the State of New York. Two years later, the original evening school body was granted a charter as Alpha Chapter of Omega Delta Phi. Since that time, the fraternity has continued to expand with the result that it now has four chapters throughout the New York area. Beta Chapter at Brooklyn Polytech was formed and granted a charter soon after Alpha received its charter. With the opening of the Day School at Cooper Union, it was befitting that Omega Delta Phi aid in student development, and consequently in 1928, the Day School group received a charter as Delta Chapter. The last charter was granted in 1935 to a group of students at Brooklyn College, which became Epsilon Chapter. The ideals and purposes of the founders have been adhered to, and it is upon these principles that the strength of the fraternity is built.

Omega Delta Phi—Alpha

As in previous years, participation in school affairs has played an important part in the activities of both chapters in Cooper Union during the past year. Besides enthusiastically joining in intramural sports, incidentally winning the intramural bowling tournament, they are well represented in the varsity teams and in the recognized organizations of the school. At the beginning of the school year, "Open House" is held on several occasions for the incoming freshmen. At this time the newcomers are made to feel at home by the informal atmosphere and by talks by alumni and upper classmen, and grounds are laid for possible future association.

On Saturday nights, informal dances are held at the Fraternity House and occasionally there are stag smokers. During the year, two all-chapter formals are held, last fall's, at the Hotel Victoria, being very successful. The social season is climaxed in June by the annual convention.

Students are pledged for a minimum of one semester, but cannot be considered for membership unless they have successfully completed one year's work at Cooper Union. New men are urged to consider fraternity affiliations.

Left to Right, Top Row: P. Peters, N. Damaskos, A. Tampus, H. Wright, B. McMullin, E. Goodness. Front Row: P. Beischer, A. Bizjak, E. Feher, P. Loras, E. McMullin.



Philip Beischer
Alfred Bizjak
David Curry
Nick Damaskos
Sahag Dardarian
Ernest Feher
Mickael Guarrasi
Paul Loras
John F. MacNair
Robert E. McMullin
Francis P. Rinallo
Carl Sardella
Robert Talamo
Howard T. Wright

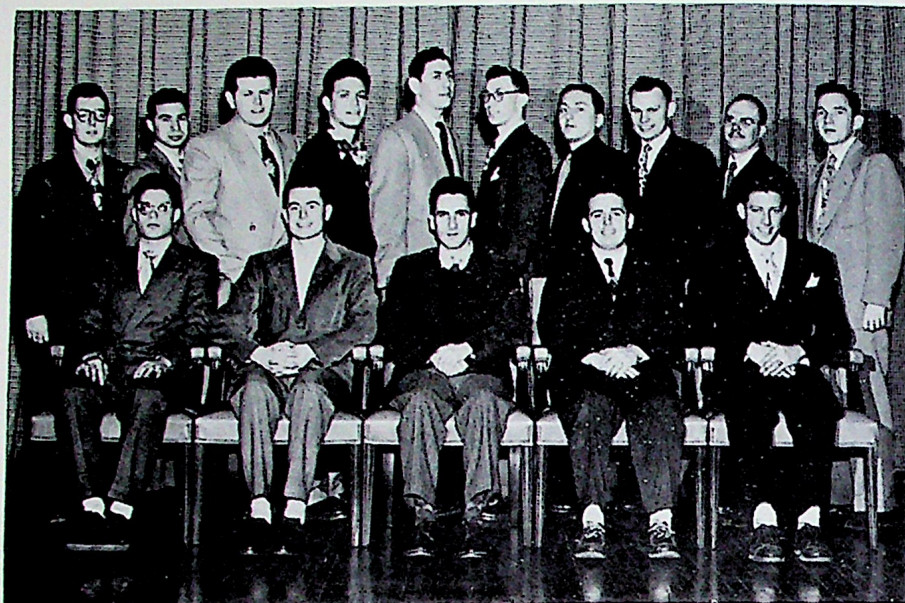
CHAPTERS

Alpha—Cooper Union Night
Beta—Brooklyn Polytech
Gamma—N.Y.U. Commerce
Delta—Cooper Union Day
Epsilon—Brooklyn College

Philip Goodman President
Mike Zonis Vice-President
John McHale Treasurer
Roy Ehnhuus Recording Secretary
Lowell Smilen Corresponding Secretary
Leo Gabay Social Director

FRATRES IN COLLEGIO

Al Chajes
Dominick Grimaldi
Israel Hershkowitz
William Horozan
Harold Hublein
John Moskewicus
Edward Neidorf
Bernard Novack
Earl Rogak
Henry Sadowski
Daniel Schochet
Murray Silverman



Left to Right, Top Row: A. Chajes, I. Hershkowitz, D. Schochet, D. Grimaldi, E. Neidorf, E. Rogak, M. Silverman, H. Hublein, W. Horozan, B. Novack. Front Row: L. Gabay, M. Zonis, P. Goodman, J. McHale, J. Moskewicus

Sigma Kappa Tau

The membership of SIGMA KAPPA TAU extends its greetings to the student body and its congratulations and best wishes to the graduating class. May those still in The Cooper Union continue in their successful studies, and may those outside Cooper's halls find their paths in life made smoother by the education received here.

Sigma Kappa Tau is a non-sectarian social fraternity for engineers. The Beta chapter, at Cooper, was founded by a group of students, displeased with the existing groups, and determined that a mature body of students should enhance their after school hours with social and athletic activities.

S.K.T. is built upon a foundation of good fellow-ship and common interest. These keynotes are stressed at the smokers at which are chosen those students who will carry on the traditions of S.K.T.

Prominent on the roster of those participating in intramural sports, and equally prominent in the ranks of those supporting all school activities, the S.K.T. men worked and enjoyed themselves. Sororities and house-plans from Hunter College, Brooklyn College, and N.Y.U. were fortunate enough to entertain and be entertained by S.K.T.'ers.

Plans for the future include joint meetings of alumni and undergraduate members to solidify fraternity bonds and to keep all brothers informed of employment trends and opportunities.

Phi Sigma Omega

Since 1926, the year of its founding, PHI SIGMA OMEGA has endeavored to promote a spirit of brotherhood among its members.

The fraternity house at 31 East Seventh St., offers its members a homey atmosphere where they can relax before the evening's work or prepare class assignments. Often, though, a cowboy serial over the radio or a bull session about girl friend's troubles interferes with homework.

P.S.O. seeks to provide an outlet from School life through the medium of various social functions during the academic year and the summer vacation. Among the highlights are the two formal dances each year, frequent socials, summer picnics and camping trips, participation in inter-fraternity basketball and softball games and a banquet.

Yet all is not play in the fraternity. Any evening before or after classes there may be found some group at the house helping others with their school work.

P.S.O. shall continue with its tradition, achievements, and spirit to further the ideals of the fraternity among the present membership and those who would join in the brotherhood.

Left to Right, Top Row: R. Laird, F. Conte, J. Dominis, D. Hudson, P. Sarra. Middle Row: J. Lomnitz, J. DiDomenico, R. Hoehn, J. Lawlor, C. Milazzo, G. Zahn. Front Row: F. Hutchinson, T. Ragozzino, J. Cubero, P. Gangi.



FRATERS IN COLLEGIO

Frank Brusasco
Gene Campagna
John Cubero
John Dominis
William Egen
Fred Flaschentrager
Philip Gangi
L. Michael Grieco
Rudolph Hoehn
Robert Horton
Frank Hutchinson
Nicholas Kulba
Robert Laird
John Lawlor
John Lomnitz
Thomas Lubenau
Arthur Mann
Ciro Milazzo Jr.
William Neuner
Tony Ragozzino
Paul Sarra

FRATRE HONARARES

Edward Schultheiss



Left to Right, Top Row: Bernie Wilner, Bob Spies, Mr. C., Cliff Temes, Harry Wenke. Middle Row: Bill Sullivan, Abe Wasserman, Gus Weiss, John Proctor, Mike Silverberg. Front Row: Leo Souzis, Mike Zonis, Hal Serenbetz, Marv Siegel.

Instigator:
Mr. Frank St. M. Caldiero
Conspirators:
John Proctor
Harold Serenbetz
Marvin Siegel
Michael Silverberg
Leo Souzis
Robert Spies
William Sullivan
Clifford Temes
Clyde Walker
Abraham Wasserman
Gustave Weiss
Harry Wenke
Bernard Wilner
Christian Young
Meyer Zonis

In the fall of 1947 there came to The Cooper Union a group of young men who, by the spelling of their names were destined to become known as Section Five of the entering freshman class. Their number included the tall, the short, the lean, the stout, the shy and the bold. In short they were a heterogeneous collection of young minds and unchanneled energies. But within a month the pressure of hard work and the bonds of common interest engendered in these men an *esprit de corps* to rival that of any class ever to walk the halls of The Cooper Union. It is in the memory of this spirit of camaraderie and to the preservation of the friendships formed in Section Five that this picture is dedicated.

Section Five

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Vice-Chancellor
Secretary
Treasurer
Faculty Adviser

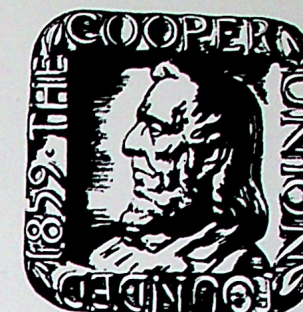
Alexander Demaras
Marvin Siegel
Walter Kahn
Donald Bass
Mr. Wayne Hodges

Sheldon Aronoff
Eleanore Cohen
Herbert Feuerlicht
Israel Kalish
Rita Lobell
Arnold Olsen
Paul Strasman
Richard Waldman

Lambda Tau

LAMBDA TAU is the honorary Valhalla of ex-editors of the once-vital-then-deceased-now-resurrected PIONEER. The quiet work of this society, which with the faculty and the A.A. is chiefly responsible for the continued well-being of The Cooper Union, has of late caused it to become comparatively unknown. It has in fact become so unknown that Alex Demaras, the president, was unaware that it still existed, and hence neglected to put in an appearance when the above photo was taken.

As a reward for their resuscitation of the rapidly-expiring school newspaper, a certain few have been elevated to membership in Lambda Tau. To these few hardy souls are left the spirit of a sheet, the honors of an umbral society, and best wishes for success in the tough job of running THE PIONEER.



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ACKNOWLEDGEMENTS

Associated with any yearbook are many personalities whose guidance and aid contribute to its successful production. Many people have helped in the publication of this CABLE, and to the following we wish to express our special thanks.

To Professor Raymond B. Dowden *for his understanding of our problems and his patience and friendliness,*

To Dr. Edwin S. Burdell *for his inspiring essay introducing this yearbook,*

To Professors Herbert F. Roemmele and Vernon Wallace *for allowing us to free ourselves of much administrative "red tape,"*

To Mr. Frank St. M. Caldiero *for his thoughtful literary criticism,*

To Messrs. Rubens and Davis of Delma Studios *for their innumerable courtesies and technical services,*

To Mr. Arthur Fleisher of Comet Press *for his cooperation and invaluable aid,*

To Mr. Michaels *for his cooperation in encouraging the photography classes to contribute to the yearbook,*

To the Cooper Union Camera Club *for their contest to secure photos for the yearbook, a practice which we hope will develop into an annual event.*

To the advertisers and organizations for the patronage which was in large measure responsible for the financial success of the yearbook.

To all of these go our thanks and gratitude for the cooperation which has made this CABLE possible.

THE CABLE, 1951

There were many times last autumn when the future of THE CABLE appeared to be very much in doubt because of general student apathy and international uncertainty. However, chiefly due to the insistence of the senior classes, particularly the day engineering classes, a staff was organized and a successful subscription campaign initiated. A production schedule was drafted in October which was rigidly adhered to by all of the editors, a remarkable feat for a CABLE staff. As a result we were ready to go to set type by February 15, and have been able to give you your book now.

At this point I wish to express my appreciation to my staff for their wonderful friendship, loyalty, and cooperation. To Bob Spies, Marilyn Marcus, Max Traite, Martin Kurz, Harry Rosenberg, and Fred Kirr go special thanks for giving their time and energies in such unselfish and untiring manner.

We hope that you have favorably judged the product of our efforts and that it served to further enrich your memories of Cooper. We only regret that financial and scholastic considerations very much limited our capabilities. However, I do realize that with Cooper's vast reservoir of artistic and literary talent a finer book could have been produced with even more student cooperation. I can only hope that this reservoir will be tapped in the future to a greater extent and its potential talent turned toward worthy extracurricular pursuits so much in need of revitalization here at Cooper.

Yours sincerely,

Marvin Siegel

Marvin Siegel, Editor

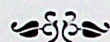
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State, Municipal and Public Securities	23,227,448.48
Federal Reserve Bank Stock	1,200,000.00
Other Securities	849,940.00
Loans and Discounts	112,109,409.41
Real Estate Mortgages	490,637.32
Customers' Liability on Acceptances	1,286,761.31
48 Banking Houses	7,409,776.64
Accrued Income Receivable	1,862,155.70
Other Assets	286,173.15
	<u>\$829,337,258.09</u>

LIABILITIES

Capital (750,000 Shares of \$20 Par Value)	\$15,000,000.00
Surplus	25,000,000.00
Undivided Profits	7,773,638.56
Reserve for Taxes, Expenses, etc.	1,500,870.65
Acceptances Outstanding	\$ 2,613,164.17
Less: Held in Portfolio	1,234,990.35
Deposits	778,684,575.06
(Includes \$12,915,652.74 U. S. Deposits)	<u>\$829,337,258.09</u>

MEMORANDUM:

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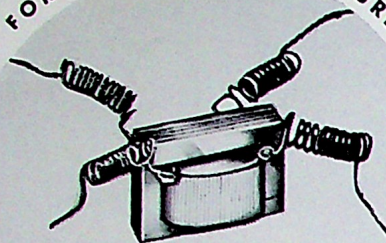
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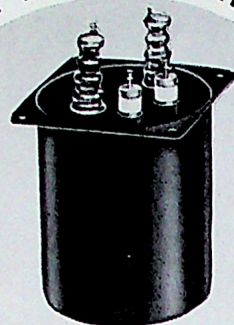
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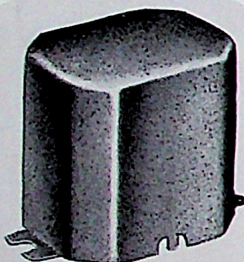
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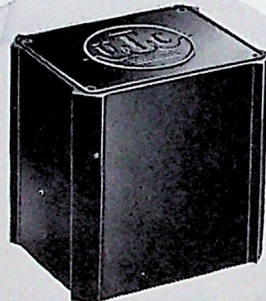
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Wertheimer, Alfred 864 Nostrand Ave., Brooklyn 25
Wiener, Julian M. 1580 East 19th St., Brooklyn 30
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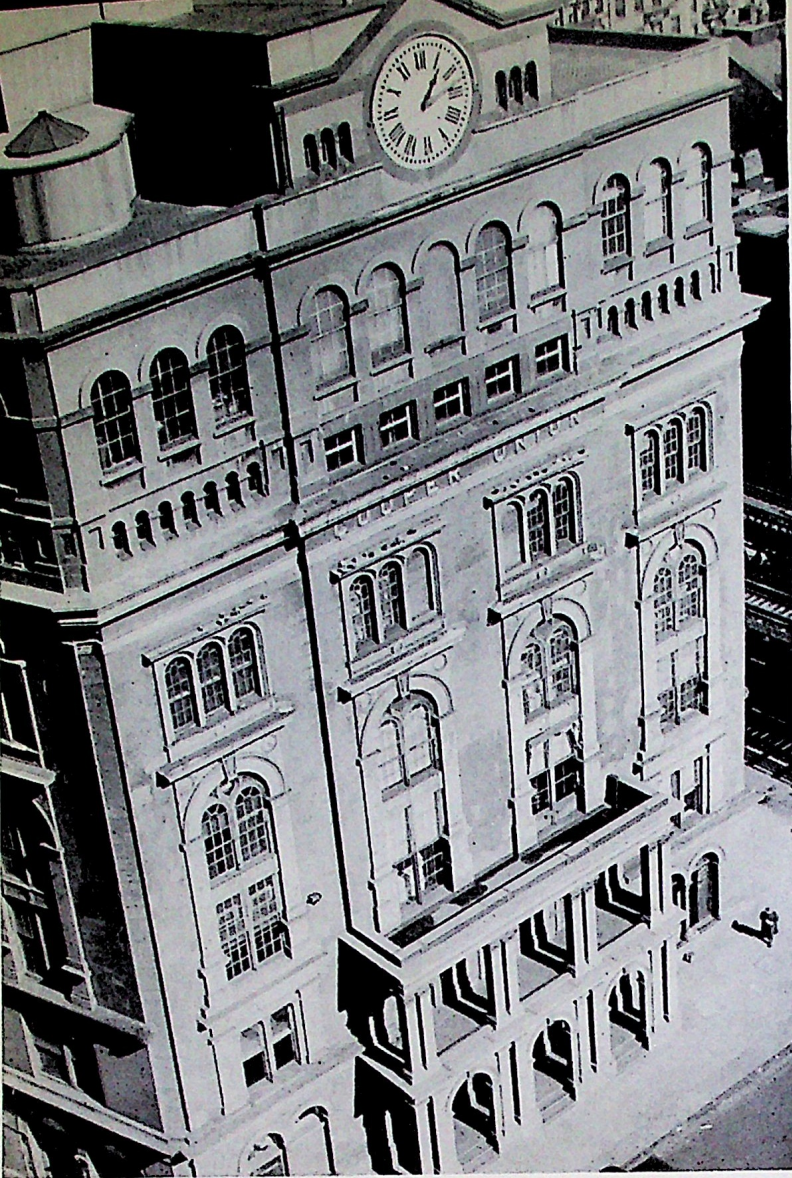
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COLOPHON

The 1951 CABLE has been set on the linotype machine in elements of the Caledonia and Spartan families of type. Warren's Lustro-Gloss 100-lb. coated paper was used for the text pages and 65-lb Navajo Antique for the end-sheets. Holliston Novelex River Blue Natural Finish cloth, stamped in silver, make up the covers. 325 copies were printed and bound in the plant of The Comet Press, Inc., in New York City.



KEEPSAKE

A year from now, or five, or ten, we hope that the sight of these sedate old walls will invoke a surge of pleasant memories. If it does, then the 1951 CABLE will have done its job. And we here at The Comet Press will be just that much more pleased because we had a hand in setting the stage for your remembering. We've been doing this sort of thing for more than thirty years; improving our methods, adding new equipment, gathering together a complete fine yearbook service. It's been fun working with the CABLE gang, watching the raw copy and photographs growing into this fine keepsake. Now we turn it over to you; to keep and to reminisce with.



The Comet Press, Inc., 200 Varick Street, New York 14, N. Y.



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